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Gravity Survey along the Lines of Precise Levels throughout Japan by Means of a WORDEN Gravimeter

Part II. Chûgoku District

Part III. Supplement to the Previous Report of the Gravity Survey in Shikoku

March, 1954

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Gravity Survey along the Lines of Precise Levels throughout Japan by Means of a WORDEN Gravimeter.

Part II. Chûgoku District.

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1. Introduction

The work to measure the gravity value at every other one of the bench marks laid along the whole lines of precise levels which densely cover entire Japan was started by us in the spring of 1951 and is progressing satisfactorily with the aid of a WORDEN gravimeter. The purpose of this big project was stated in Part I (C. TSUBOI et al.:1953) of the present serial reports. The results which are obtained by our measurements will be published serially and separately for each of the seven districts into which whole Japan is divided. The results obtained in the Shikoku District were published as Part I of the serial reports in which our method of measurements and reductions were also described in detail. The present report is the second of the serial reports and is concerned particularly with the results obtained in the Chûgoku District.

2. Lines of Precise Levels in the Chûgoku District

The Chûgoku District occupies the westernmost part of Honshû, the main island of Japan (Fig. 1). It lies to the north of the Shikoku

District across the Seto Inland Sea. It is approximately 300 km. long in the EW and 150 km. wide in the NS directions. The district is about 32,000 km² in area and comprises five administrative prefectures, viz. (30) Tottori, (31) Shimane, (32) Okayama, (33) Hiroshima, and (34) Yamaguchi. The lines of precise levels in this district, along which we measured gravity values are shown in Fig. 2, together with the prefecture boundaries. The lines are altogether about 1,700 km. in length and at 420 points along them, the gravity values were determined. As measured along the lines of precise levels, two consecutive bench marks are 2 km. apart and therefore two consecutive gravity stations are 4 km. apart on the average. Since the greater part of the lines was traversed twice in opposite directions in order to make appropriate gravimetric loops, the total distance covered by us may have easily reached 5,000 km. The gravity values were determined not only at bench marks, but also at several local weather stations and other identifiable points, of which the heights are known with sufficient accuracy for the purpose of our gravity reductions. The number of points at which the gravity values were determined in each of the five prefectures is as in Table I. The measurements were made partly in December, 1951, but mainly in June, July and August, 1952.

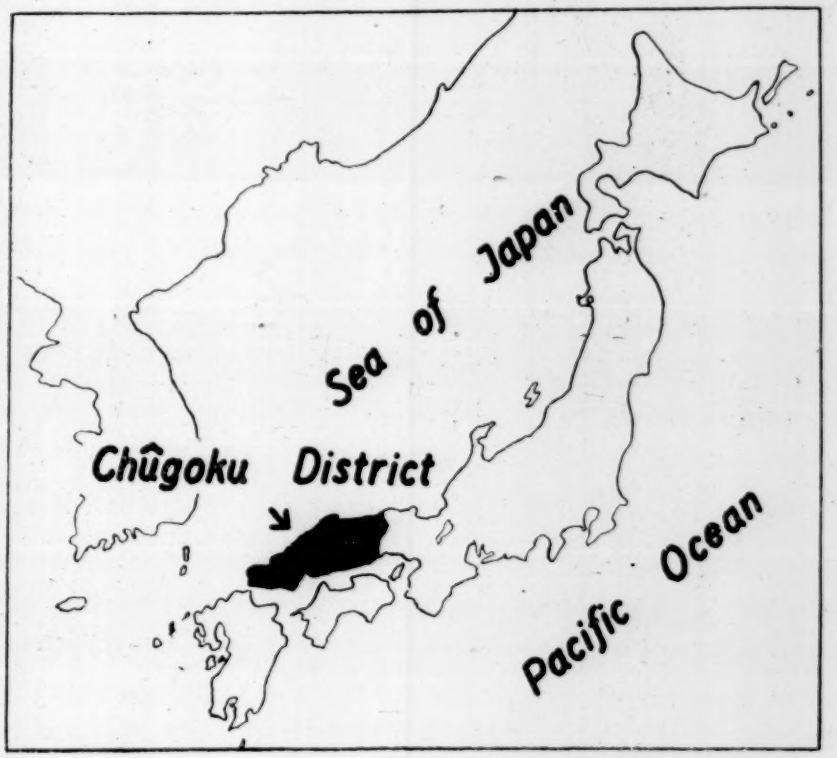

Fig. 1. Chûgoku District.

Table I.
Number of Gravimeter Stations.

Prefecture	Number
30) Tottori	64
31) Shimane	83
32) Okayama	79
33) Hiroshima	94
34) Yamaguchi	100
Total	420

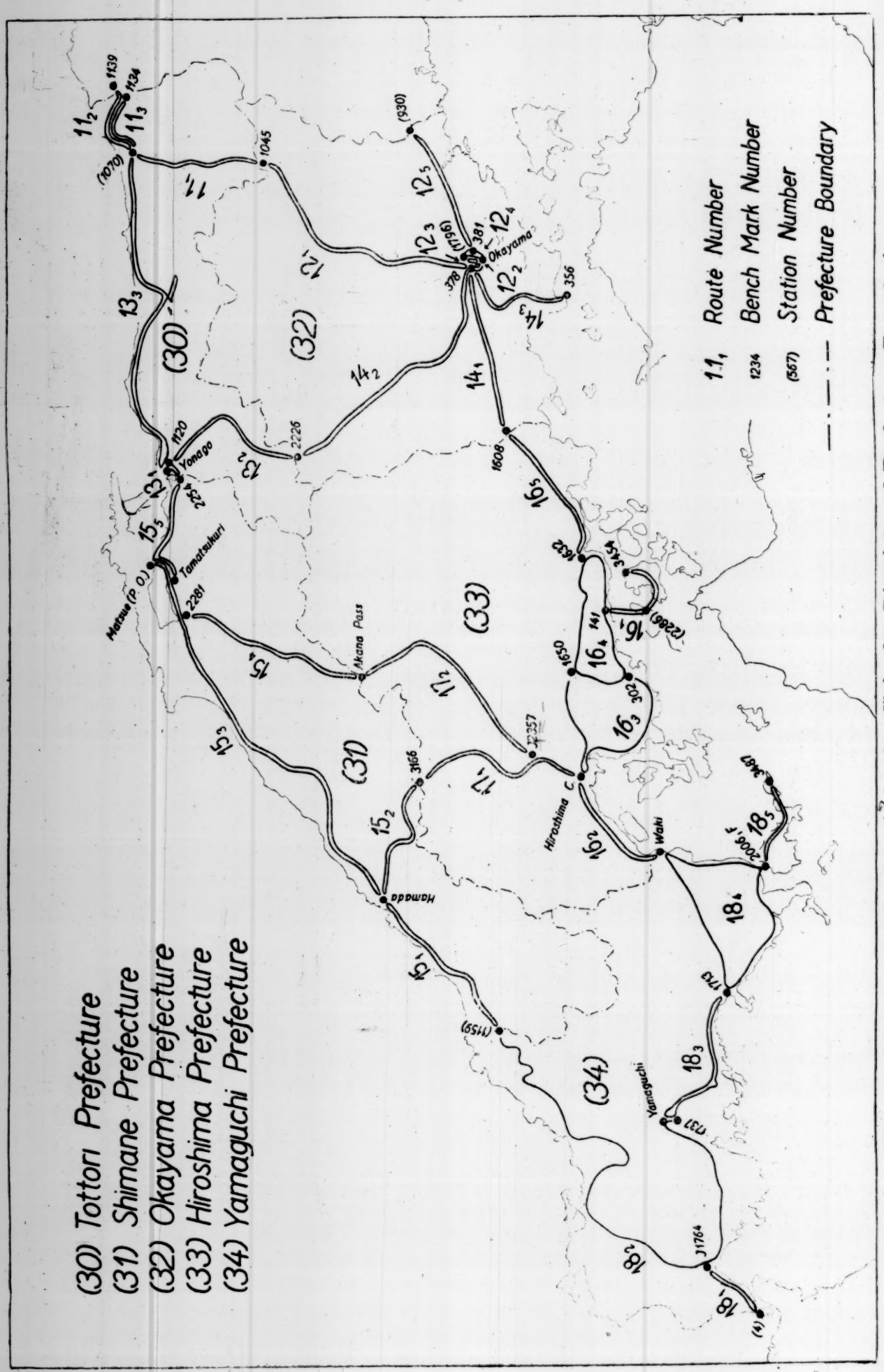

Fig. 2. Lines of Precise Levels in the Chûgoku District and Prefecture Boundaries.

3. Method of Calculation (I)

Our methods of measurements are similar to those described in Part I for the Shikoku District except that in this survey we removed the large dial disk of the gravimeter in order to avoid its accidental rotation which might happen during the process of transportations and settings. When necessary, the large dial head was twisted with a screw driver. As was stated before, we covered the whole length of the lines of measurements by making a gravimetric loop for each section of the lines in order to make the drift correction of the gravimeter spring possible. The whole length of the line of measurements is therefore an interconnected net consisting of a number of chains of short loops. The loops are numbered as illustrated in Fig. 2. To cover the whole length of the line in this way may not have been a wise procedure and may seem rather clumsy. It might have been better done by making fewer longer loops. But chiefly through unavoidable circumstances regarding transportation facilities, the procedure stated above was what we were compelled to adopt. From the nature of this procedure, the correction against the drift of the gravimeter spring was made for each one of the short loops separately and the final results for the consecutive loops were connected successively. The results obtained in this way may not be accurate when compared with those that would have been obtained by making a simultaneous net adjustment with fewer longer loops. But since our WORDEN gravimeter has been working with admirable perfectness, it is not likely that any difference in the process of reduction will result in a large difference in the final values.

In order to see how far the difference in the process of reduction will affect the results, let us calculate the gravity values at many key stations on the line which encircles the Chûgoku District by several different methods of reduction and compare the results.

Let us take the line which is shown in Fig. 3. First of all, we take a large clockwise loop:

Tottori (Prefecture Office) → B.M. 1045 → B.M. 378 → B.M. 1608 → B.M. 1632 → Hiroshima Castle → Waki → B.M. 1713 → B.M. 1737 → Prefecture Boundary → Hamada Lodging Inn → Matsue (Prefecture Office) → B.M. 2254 → Tottri (Prefecture Office).

The numerals given near the arrows attached to each of the sections in Fig. 3 are apparent gravity differences (not corrected for drift) between the starting and ending points of that section as measured

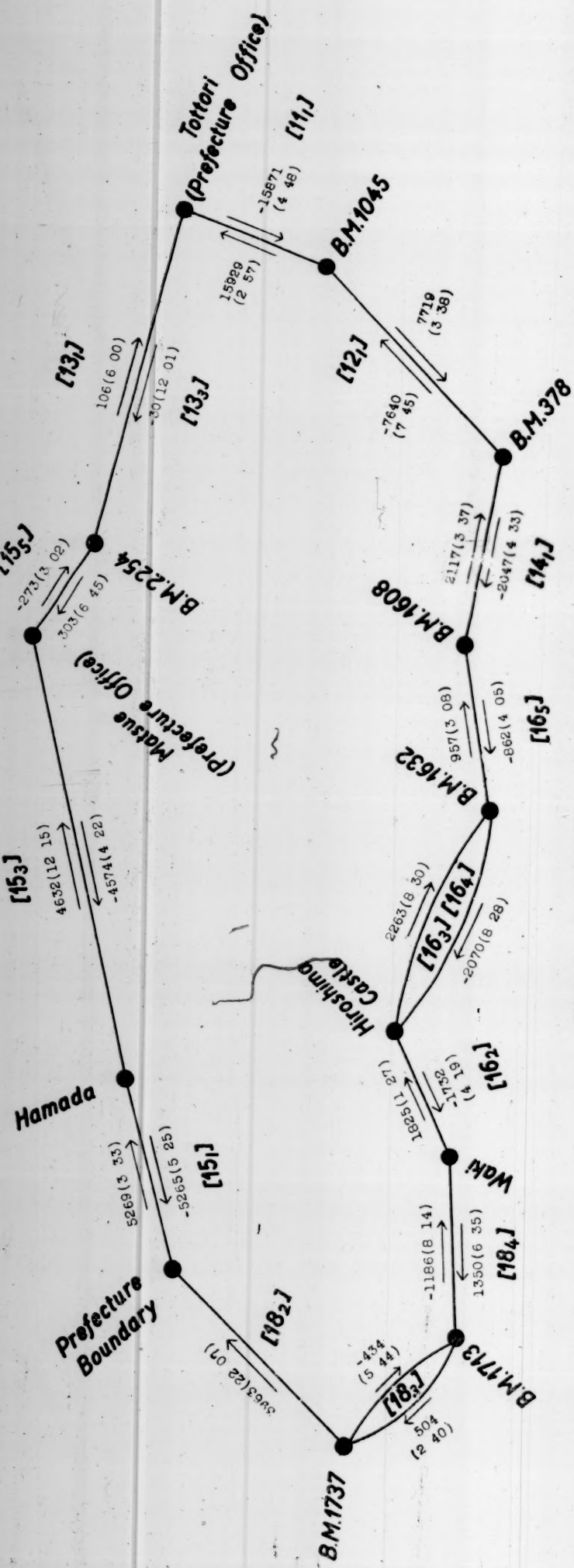

Fig. 3. Key Stations in the Chûgoku District.

in the direction indicated. They involve the effect of drift of the gravimeter spring. The numerals given in the brackets are the time in hour and minute needed to cover the respective distances. The numbers in the square brackets are the route numbers.

The total closing residual for this large clockwise loop is 6.88 mgals. and the time needed to complete this loop was 86.1 hours. The average rate of drift of the gravimeter spring is therefore

$$R = \frac{6.88}{86.1} = 0.0800 \text{ mgal./hour.}$$

The measured gravity values at all the stations on this loop were corrected against the effect of the drift of the gravimeter spring with this constant. So if $\sum \delta T$ is the time needed to arrive at a station from Tottori, the correction $R \sum \delta T$ was given to the measured gravity value at that station. Thus we get the gravity values at the stations relative to the value at Tottori. But since we

know already from other measurements that the gravity value at Tottori is 979.80429, we get finally the values given in Table II.

Table II. Gravity Values at Key Stations in the Chûgoku District as Determined by the First Method. (in 0.01 mgal.)

	δg	$\sum \delta g$ Obs.	δT	$\sum \delta T$	$R \sum \delta T$	$\sum \delta g$ Corr.	g 979.
Tottori (Prefecture Office)		0	h m	0	0	0	80429
	−15871		4 48				
B.M. 1045		−15871		4 48	38	−15909	64520
	7719		3 38				
B.M. 378		−8152		8 26	67	−8219	72210
	−2047		4 33				
B.M. 1608		−10199		12 59	104	−10303	70126
	− 862		4 05				
B.M. 1632		−11061		17 04	137	−11198	69231
	−2070		8 28				
Hiroshima Castle		−13131		25 32	204	−13335	67094
	−1732		4 19				
Waki		−14863		29 51	239	−15102	65327
	1350		6 35				
B.M. 1713		−13513		36 26	291	−13804	66625
	504		2 40				
B.M. 1737		−13009		39 06	312	−13321	67108
	3963		22 07				
Prefecture Boundary		−9046		61 13	489	−9535	70894
	5269		3 33				
Hamada		−3777		64 46	518	−4295	76134
	4632		12 15				
Matsue (Prefecture Office)		855		77 01	616	239	80668
	− 273		3 02				
B.M. 2254		582		80 03	640	− 58	80371
	106		6 00				
Tottori (Prefecture Office)		688		86 03	688	0	80429

In the second place, we can arrange our results of measurements so as to form a large counter-clockwise loop as a whole, except for the section between B.M. 1737 and the Prefecture Boundary which was covered in the clockwise sense only.

In this case, we have two routes to arrive at the Prefecture Boundary from B.M. 1737: the counter-clockwise one via Tottori and the clockwise one. For the first route, $g(1737)-g(\text{P.B.})=\sum_{1737}^{\text{P.B.}}\delta g$ is apparently 42.65 mgals. and the time t needed to cover this distance was 69.9 hours. For the second route, the corresponding values are $\sum\delta g=39.63$ mgals. and $t=22.1$ hours. If we assume that the rate of drift of the gravimeter spring was the same for both routes, then we have

$$42.65=g(1737)-g(\text{P.B.})+69.9\,R$$
$$39.63=g(1737)-g(\text{P.B.})+22.1\,R.$$

From the above equations, we get

$$42.65-39.63=R(69.9-22.1),$$

hence

$$R=\frac{3.02}{47.8}=0.0632 \text{ mgal./hour.}$$

Adopting this rate, the gravity values at all the stations on the loop can be calculated as before. The results are given in Table III. g(Tottori) was taken to be 979.80429 as before.

Table III. Gravity Values at Key Stations in the Chûgoku District as Determined by the Second Method. (in 0.01 mgal.)

First Route

	δg	$\sum \delta g$ Obs.	δT	$\sum \delta T$	$R\sum \delta T$	$\sum \delta g$ Corr.	g 979.
B.M. 1737		—		—	0	—	66860
	−434		5 44				
B.M. 1713		− 434		5 44	36	− 470	66390
	−1186		8 14				
Waki		−1620		13 58	88	−1708	65152
	1825		1 27				
Hiroshima Castle		205		15 25	97	108	66968
	2263		8 30				
B.M. 1632		2468		23 55	151	2317	69177
	957		3 08				
B.M. 1608		3425		27 03	171	3254	70114
	2117		3 37				
B.M. 378		5542		30 40	194	5348	72208
	−7640		7 45				
B.M. 1045		−2098		38 25	243	−2341	64519
	15929		2 57				
Tottori (Prefecture Office)		13831		41 22	262	13569	80429
	− 30		12 01				
B.M. 2254		13801		53 23	337	13464	80324
	303		6 45				
Matsue (Prefecture Office)		14104		60 08	380	13724	80584
	−4574		4 22				
Hamada		9530		64 30	408	9122	75982
	−5265		5 25				
Prefecture Boundary		4265		69 55	442	3823	70683

Second Route

B.M. 1737		—		—	—	—	66860
	3963		22 07				
Prefecture Boundary		3963		22 07	140	3823	70683

Thirdly and lastly, we can regard the whole route as a chain consisting of a number of short loops and one one-direction route which lies between B.M. 1737 and the Prefecture Boundary. We can calculate

the rate of drift of the gravimeter spring separately for each of the loops and derive gravity values at junction points of the chains and connect the results successively.

It was found that the rate of drift differs notably from a loop to another among the routes considered here as shown in Table IV.

Table IV. Rate of Drift for Various Short Loops.

Route	Residual (0.01 mgal.)	time	R (mgal./hour)
		h	
11_1	58	7.8	0.074
12_1	79	11.4	0.069
14_1	70	8.2	0.085
16_5	95	7.2	0.132
$16_3 \cdot 16_4$	193	17.0	0.114
16_2	93	5.8	0.160
18_4	164	14.8	0.111
18_3	70	8.4	0.083
15_1	4	9.0	0.004
15_3	58	16.6	0.035
15_5	30	9.8	0.031
$13_1 \cdot 13_3$	76	18.0	0.042

Now we have determined the gravity values at the key stations around the Chûgoku District according to three different processes. The values are compared in Table V.

Table V. Comparison of the Gravity Values at Key Stations in the Chûgoku District as determined by Three Different Methods.

	1st methods.	2nd methods.	3rd methods.
Tottori (Prefecture Office)	979.80429	979.80429	979.80429
B.M. 1045	64520	64519	64522
B.M. 378	72210	72208	72152
B.M. 1608	70126	70114	70066
B.M. 1632	69231	69177	69150
Hiroshima Castle	67094	66968	66983
Waki	65327	65152	65182
B.M. 1713	66625	66390	66459
B.M. 1737	67108	66860	66941
Prefecture Boundary	70894	70683	70774
Hamada	76134	75982	76041
Matsue (Prefecture Office)	80668	80584	80630
B.M. 2254	80371	80324	80348
Tottori (Prefecture Office)	80429	80429	80429

It is seen in the table that there are no negligible differences

among the values as determined by the three different methods. On the whole, the values derived according to the first and second methods are extremes and those derived according to the third are intermediate. The advantage of the first two methods is that the associated calculations are simple because a long loop is considered but their disadvantage is that the rate of drift has to be assumed to remain constant throughout that long loop. On the contrary, the disadvantage of the third method is that the associated calculations are rather elaborate but its advantage is that the rate of drift is calculated for each of the short loops separately. It is difficult to decide which process is the best. But for the time being, we are going to adopt the third stepwise method.[1] This we do because the progress of our field measurements itself is also stepwise and it seems to be prudent to get the gravity values also stepwise without waiting the completion of the whole net of measurements throughout Japan.

4. Method of Calculation (II)

Similar questions as above arises regarding the way to connect the two small loops which cross the Chûgoku District in NS direction. In Fig. 4 is shown one of the four instances we encountered in this district.

Fig. 4. Connection of Two Small Loops.

The loop 15_2 starts from Hamada, goes southward down to B.M. 3166 and gets back to Hamada. The closing residual is 0.23 mgal. and the time needed to complete this loop was 7^h02^m. The rate of flow is therefore 0.23/7.05=0.0324 mgal./hour. Adopting this rate and with g(Hamada)=979.76038, which is already known, we find

$$g(3136)=979.61599.$$

Secondly, the other loop 17_1 starts from Hiroshima Castle, goes northward up to B.M. 3166, and gets back to the starting station, describing a loop. The closing residual is 0.78 mgal. and the time needed to complete this loop was 7^h35^m. The rate

(1) The gravity values given in Tables VI–XVIII differ a little from those given in Table V. This is due to the difference in the way of interconnecting short loops.

of flow is therefore 0.78/7.6=0.103 mgal./hour. Adopting this rate and with g(Hiroshima Castle)=979.66982, which is already known, we find

$$g(3166)=979.61577.$$

Thirdly, the south-going half of the route 15_2 and the same of the route 17_1 may be connected. The times needed were 4^h15^m and 2^h41^m respectively, making a total 6^h56^m. Since

$$g(\text{Hamada})-g(3166)=0.14425 \text{ from Route } 15_2$$

and $$g(3166)-g(\text{Hiroshima Castle})=-0.05433 \text{ from Route } 17_1,$$

we get $$g(\text{Hamada})-g(\text{Hiroshima Castle})=0.03992.$$

It is already known that

$$g(\text{Hamada})-g(\text{Hiroshima Castle})=979.76038-979.66982=0.09056.$$

The mean rate of flow is therefore

$$\frac{90.56-89.92}{4.25+\ 2.70}=0.093 \text{ mgal./hour}$$

and with this rate we find

$$g(3166)=979.61564.$$

Fig. 5. Connection of the Routes 15_2 and 17_1.

	mgal.	mgal.	
Hamada 979.76038	↓ −144.25 (4^h15^m)	↑ 144.48 (2^h48^m)	Route 15_2
B.M. 3166			
Hiroshima Castle 979.66982	↑ −53.55 (4^h54^m)	↓ 54.33 (2^h41^m)	Route 17_1

Fourthy and lastly, the north-going half of Route 15_2 and the same of Route 17_1 may be connected. The times needed were 2^h48^m and 4^h54^m respectively, making a total 7^h42^m. Since in this case

$$g(\text{Hamada})-g(3166)=0.14448$$

$$g(3166)-g(\text{Hiroshima Castle})=-0.05355,$$

we get $$g(\text{Hamada})-g(\text{Hiroshima Castle})=0.09093.$$

The rate of flow in this case is

$$\frac{90.93-90.56}{2.80+\ 4.90}=\frac{0.37}{7.70}=0.048 \text{ mgal./hour}$$

and with this rate, we find

$$g(3166)=979.61603.$$

After all, we have four values for $g(3166)$;

Method	$g(3166)$
I	979.61599
II	61577
III	61564
IV	61603
Mean	979.61586

according to the four different methods. We have no reason at hand to prefer one to the others. As a matter of fact, 979.61577 derived by the second method has been adopted simply because it is the nearest to the mean value of the four. As was stated before, this value was determined from the measurements along Route 17_1. Some adjustments then need be applied to the values at the stations along Route 15_2 in order to make the small difference

$$979.61599-979.61577=0.22 \text{ mgal.}$$

disappear. The adjustments were given in proportion to the gravity difference at a station from Hamada. These adjustments are tabulated in Table X under the heading "Adjustment". Similar adjustments were also necessary for the small loops 12_1, 12_3, 13_2, 15_2 and 15_4. These adjustments are also given in Tables VII, VIII and X.

5. Results

Now that we have found the gravity values at a number of stations in the district, the free-air and BOUGUER anomalies were calculated. The methods of calculation were described in Part I of the present series. To state briefly, the coefficient for the free-air reduction was taken at exactly 0.308600 and the rock densitites necessary for BOUGUER reductions were taken at exactly 2.6700. The normal values of gravity were calculated both according to the HELMERT formula of 1901 and to the International formula, assuming as if the constants appearing in the formulas are exact down to 0.01 mgal., thus

$$\gamma=978.03000(1+0.00530200\sin^2\varphi-0.00000700\sin^2 2\varphi),$$
$$\gamma=978.04900(1+0.00528840\sin^2\varphi-0.00000590\sin^2 2\varphi).$$

The corrections for the height h of the gravimeter above bench marks

and for the effect of the earth tides were made of course. The free air and BOUGUER anomalies were calculated down to 0.1 mgal., although the gravity values at the stations were calculated down to 0.01 mgal. The gravity values at all the stations are given in Tables VI～XIII for each of the short loops separately. In Tables XIV～XVIII, the materials are arranged synoptically according to each of the five prefectures separately. The lines of equal BOUGUER anomalies based on the International formula are shown in Fig. 12 with 2 mgal. intervals. The figure is in the pocket attached to the back cover. The positions of the contour lines are accurate where they meet the lines of precise levels but no great accuracy can be claimed for the intervenient parts.

Reserving the geophysical interpretations of the distribution of the BOUGUER anomalies for a future study, we will briefly enumerate only the especially notable facts in Fig. 12.

1. The BOUGUER anomaly increases towards north, that is towards the Sea of Japan. Along the Japan Sea coast, the isoanomaly lines are generally parallel to the coast line. This parallelism is disturbed rather abruptly at the westernmost part of the district, where the isoanomaly lines tend to run in the NS directions.

2. The parallelism of the coast line and the isoanomaly lines is disturbed near the city of Matsue, where the coast line is also irregular.

3. Along the middle zone of the Chûgoku District, the gravity anomaly is minimum. Geologically this corresponds to the median zone of an uplifted peneplain about 1,000 m above sea level at present, composed chiefly of granite.

4. There is an area of conspicuous negative anomaly around the city of Hiroshima as was anticipated in Part I from the trends isoanomaly lines in the Shikoku District. This area, in the form of an inverted oval, appears to be a depression of the earth's crust by about 2 km. It is interesting to note that there is a bay conforming to the isoanomaly lines.

5. An area of conspicuous positive anomaly, which was noticed towards north of Kagawa Prefecture of Shikoku has been found to extend to the Chûgoku District, comprising an elliptic area as a whole, with its major axis in the EW direction. It was stated in Part I that this positive anomaly might be closely related to the existence there of a dense mass of magma beneath the ground from which the sporadically distributed basaltic (sanukitic) rock bodies in this area must have been fed.

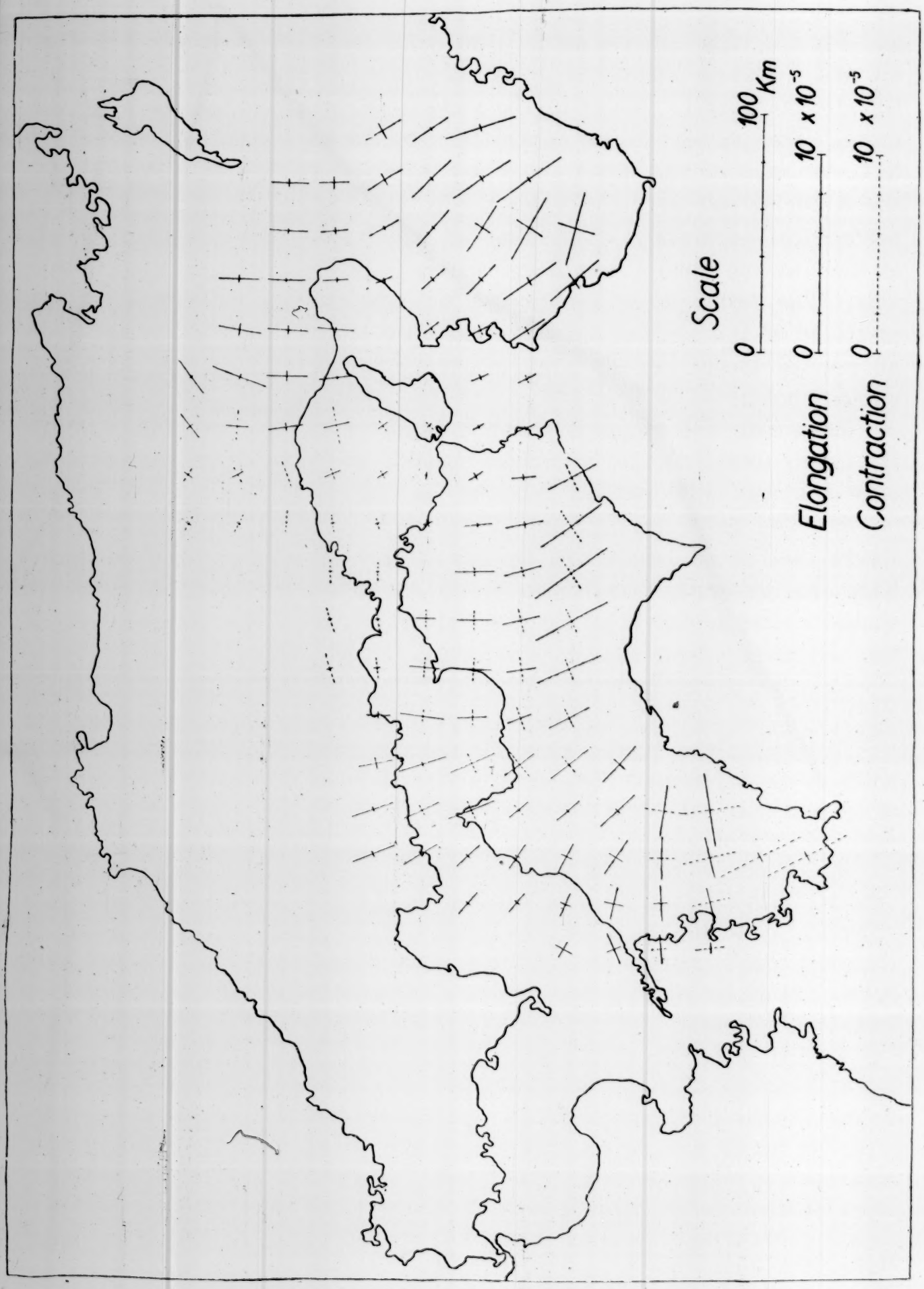

Fig. 6. Principal Horizontal Strains of the Earth's Surface Produced in Connection with the Nankai Great Earthquake of 1946. (after INOUE, SUZUKI and ONO.)

The Shikoku and Chûgoku Districts were severely disturbed by the Nankaido great earthquake of 1946 and the comparison of the triangulations before and after the earthquake has disclosed conspicuous horizontal deformations of the earth's surface in these districts which must have occurred in connection with the earthquake. E. INOUE, H. SUZUKI and H. ONO of the Geographical Survey Institute have calculated the principal horizontal strains of the earth's crust in these districts using as data the horizontal displacement vectors of the triangulation points which were obtained by the surveys. They have got the results as shown in Fig. 6. Principal strains are notably smaller in the above-mentioned elliptic area than in anywhere else. This may be taken as indicating the relative rigidness of the deep-rooted basaltic mass in question.

6. Acknowledgements

We cannot close this report without expressing our sincere gratitude to the many officials and individuals who helped us in various ways in accomplishing this survey. Particularly, we wish to thank the Ministry of Education for financial support and also the Chûgoku High Tide Prevention Committee which sponsored a part of the expense needed for our survey.

Mrs. S. INOUE and Miss K. SEKI have helped us greatly in numerical computations and in preparing the present paper. We acknowledge gratefully their help.

Reference

TSUBOI, C., JITSUKAWA, A., TAJIMA, H. and OKADA, A.:
1953 "Gravity Survey along the Lines of Precise Levels throughout Japan by Means of a WORDEN Gravimeter. Part I. Shikoku District".
Bull. Earthq. Res. Inst., Suppl. Vol., IV, Part I.

Explanations of Tables

Tables VI–XIII Results along Each of the Routes

Pref. ..... Prefecture

No. ..... Number of Measurement

B.M. ..... Bench Mark Number

Time ..... Time of Measurement

$\sum \delta T$ ..... Net Time Needed to arrive at the Station from the Starting Point

SD ..... Small Dial Reading

$0.9150 \times SD$ .... Conversion of Small Dial Reading to 0.01 mgal.

h ..... Height of the Gravimeter above the Bench Mark Head

$0.3086 \times h$ ..... Free-air Reduction to the Bench Mark Head

E.T. ..... Correction for the Earth Tides (Factor 1.20)

Drift ..... Correction for Drift

$\sum \delta g$ ..... Gravity Difference from the Starting Point

g ..... Gravity Value (corrected for Drift and Earth Tides)

Tables XIV–XVIII Synoptic Results for Each of the Prefectures

φ ..... Latitude

λ ..... Longitude

H ..... Height of the Bench Mark above the Sea Level

g ..... Gravity Value (Corrected for Drift and Earth Tides)

g_0 ..... Gravity Value after the Free-air Reduction

g_0'' ..... Gravity Value after the BOUGUER Reduction

γ ..... Normal Gravity

Δg_0 ..... Free-air Anomaly

$\Delta g_0''$ ..... BOUGUER Anomaly

Table VI. Results along Route 11. (0.01 mgal.).

Route 11_1 Tottori (No. 1070)—Chizu—B.M. 1045—Tottori (No. 1070).

Pref.	No.	B.M.	Date 1951	Time	$\sum\delta T$	SD	$0.9150 \times SD$	h (cm)	$0.3086 \times h$	$E.T.$	$7.44 \times \sum\delta T$ Drift	$\sum\delta g$	g 979.	Field Note No.
				h m	h m									
30	1070	Tottori P.O.*	XII 11	15 25	0 00	3982	3644	27	8	−8	0	0	80429	26
〃	1079	1066	〃	15 58	33	3675	3363	65	20	−8	4	− 273	80156	〃
〃	1080	1065	〃	16 14	49	3019	2762	73	23	−8	6	− 873	79556	〃
〃	1081	1062	〃	16 30	1 05	2252	2061	69	21	−8	8	− 1578	78851	〃
〃	1082	1061	〃	16 46	1 21	2067	1891	66	20	−6	10	− 1749	78680	〃
〃	1083	1059	〃	16 58	1 33	1275	1167	54	17	−6	12	− 2478	77951	〃
〃	〃	〃	〃	17 02		4523	4139	〃	〃	−6				〃
〃	1084	1057	〃	17 17	1 48	2922	2674	73	23	−6	13	− 3938	76491	〃
〃	1085	1055	〃	17 31	2 02	1425	1304	70	22	−2	15	− 5307	75122	〃
〃	〃	〃	〃	17 35		7414	6784	〃	〃	−2				〃
〃	1086	1053	〃	17 52	2 19	6219	5690	55	17	−2	17	− 6408	74021	〃
〃	1087	1052	〃	18 07	2 34	5834	5338	50	15	−2	19	− 6764	73665	27
〃	1088	1051	〃	18 21	2 48	5105	4671	49	15	−2	21	− 7433	72996	〃
〃	Chizu		〃	18 37	3 04	5766	5276	27	8	3	23	− 6832	73597	〃
〃	〃		XII 12	9 02		7301	6680	〃	〃	−5				〃
〃		Chizu W.S.**	〃	9 25	3 27	5909	5407	27	8	−5	26	− 8108	72321	〃
〃	1088	1051	〃	9 45	3 47	6658	6092	48	15	−3	28	− 7416	73013	〃
〃	1089	1049	〃	9 58	4 00	4723	4322	65	20	−3	30	− 9183	71246	〃
〃	1090	1047	〃	10 16	4 18	2044	1870	60	19	−3	32	−11638	68791	〃
〃	〃	〃	〃	10 20		7468	6833	〃	〃	−3				〃
32	1091	1045	〃	10 50	4 48	2812	2573	42	13	−2	36	−15907	64522	〃
30	1090	1047	〃	11 26	5 24	7466	6831	58	18	−2	40	−11648	68781	〃
〃	〃	〃	〃	11 30		0658	0602	〃	〃	−2				〃
〃	1086	1053	〃	12 13	6 07	6412	5867	52	16	−2	45	− 6390	74039	〃
〃	〃	〃	〃	12 16		0200	0183	〃	〃	−2				〃
〃	1070	Tottori P.O.	〃	13 54	7 45	7211	6598	27	8	−6	58	0	80429	〃

* Tottori Prefecture Office. ** Old site of the Weather Station, Entrance.

Route 11_2 Tottori (No. 1070)—B.M. 1139—Tottori (No. 1070).

Pref.	No.	B.M.		Date 1951	Time	$\Sigma\delta T$	SD	0.9150 × SD	h (cm)	0.3086 × h	$E.T.$	6.80 × $\Sigma\delta T$ Drift	$\Sigma\delta g$	g 979.	Field Note No.
					h m	h m									
30	1070	Tottori	P.O.	XII 15	10 11	0 00	4192	3836	27	8	−5	0	0	80429	28
27	974		1139	〃	12 49	2 38	2989	2735	59	18	−2	18	− 1106	79323	〃
30	1070	Tottori	P.O.	〃	15 09	4 58	4230	3870	27	8	−5	34	0	80429	〃

Route 11_3 Tottori (No. 1070)—B.M. 1134—Tottori (No. 1070).

Pref.	No.	B.M.		Date 1951	Time	$\Sigma\delta T$	SD	6.9150 × SD	h (cm)	0.3086 × h	$E.T.$	3.51 × $\Sigma\delta T$ Drift	$\Sigma\delta g$	g 979.	Field Note No.
					h m	h m									
30	1070	Tottori	P.O.	XII 11	9 45	0 00	3953	3617	27	8	−1	0	0	80429	26
〃	1071		1121	〃	9 59	14	3764	3444	46	14	−1	1	− 168	80261	〃
〃	1072		1123	〃	10 17	32	3011	2755	64	20	−2	2	− 853	79576	〃
〃	1073		1125	〃	10 37	52	4168	3814	54	17	−2	3	202	80631	〃
〃	1074		1128	〃	11 04	1 19	4868	4454	63	19	−2	5	842	81271	〃
〃	1075		1130	〃	11 18	1 33	4937	4517	65	20	−2	6	905	81334	〃
〃	1076		1131	〃	11 32	1 47	4568	4180	65	20	−3	6	567	80996	〃
〃	1077		1132	〃	11 49	2 04	3569	3266	56	17	−3	7	− 351	80078	〃
〃	1078		1134	〃	12 07	2 22	0880	0805	62	19	−3	8	− 2811	77618	〃
〃	1070	Tottori	P.O.	〃	15 25	5 40	3982	3644	27	8	−8	20	0	80429	〃

Table VII. Results along Route 12. (0.01 mgal.).

Route 12_1 B.M. 378—B.M. 1045—Tsuyama—B.M. 378.

Pref.	No.	B.M.	Date 1952	Time	$\sum\delta T$	SD	0.9150 × SD	h (cm)	0.3086 × h	$E.T.$	6.93× $\sum\delta T$ Drift	adjust-ment	$\sum\delta g$	g 979.	Field Note No.
				h m	h m										
32	1810	378	VI 25	8 55	0 00	4844	4432	67	21	− 1	0	0	0	72152	44
〃	1811	1003	〃	9 35	40	4946	4526	67	21	4	5	1	93	72245	〃
〃	1812	1004	〃	9 44	49	4912	4494	72	22	4	6	1	61	72213	〃
〃	1813	1006	〃	9 57	1 02	3611	3304	66	20	4	7	− 9	−1122	71030	〃
〃	1814	1009	〃	10 16	1 21	5684	5201	75	23	4	10	6	760	72912	〃
〃	1815	1012	〃	10 50	1 55	5522	5053	66	20	9	13	5	612	72764	〃
〃	1816	1013	〃	11 00	2 05	5405	4946	64	20	9	15	4	504	72656	〃
〃	1817	1015	〃	12 15	3 20	5334	4881	72	22	13	23	4	437	72589	〃
〃	1818	1018	〃	12 32	3 37	5326	4873	57	18	15	25	4	425	72577	〃
〃	1819	1020	〃	12 43	3 48	5474	5009	70	22	15	26	5	563	72715	〃
〃	1820	1022	〃	12 56	4 01	5382	4925	68	21	15	28	4	477	72629	〃
〃	1821	1024	〃	13 10	4 15	5038	4610	71	22	15	30	1	164	72316	〃
〃	1822	1026	〃	13 22	4 27	5487	5021	60	19	15	31	5	567	72719	〃
〃	1823	1028	〃	13 34	4 39	6113	5593	59	18	14	33	9	1131	73283	〃
〃	1824	F. 32	〃	14 15	5 20	7084	6482	56	17	14	37	17	2007	74159	〃
〃	1825	1031	〃	14 30	5 35	7240	6625	51	16	14	39	18	2146	74298	〃
〃	1826	1033	〃	14 45	5 50	7129	6523	72	22	12	40	17	2048	74200	〃
〃	1827	1035	〃	15 00	6 05	5776	5285	60	19	12	42	7	815	72967	〃
〃	1828	1037	〃	15 17	6 22	5254	4807	56	17	12	44	3	337	72489	〃
〃	1829	1039	〃	15 32	6 37	4927	4508	59	18	7	46	0	35	72187	〃
〃	1830	1041	〃	15 45	6 50	4013	3672	43	13	7	47	− 7	− 800	71352	〃
〃	1831	1043	〃	16 10	7 15	1923	1760	64	20	7	51	−23	−2693	69459	〃
〃	〃	〃	〃	16 15		7627	6979	〃	〃	7					〃
〃	1832	1044	〃	16 30	7 30	4627	4234	61	19	2	52	−45	−5423	66729	〃
〃	1091	1045	〃	16 45	7 45	2204	2017	40	12	2	54	−64	−7630	64522	〃
〃	1831	1043	〃	17 04	8 04	7648	6998	63	19	2	56	−22	−2686	69466	〃
〃	〃	〃	〃	17 08		2020	1848	〃	〃	2					〃
〃	1825	1031	〃	18 04	9 00	7371	6744	50	15	− 2	62	18	2156	74308	〃
〃	Tsuyama		〃	18 15	9 11	7182	6572	27	8	− 2	64	17	1976	74128	〃
〃	〃		VI 26	8 29		7267	6649	〃	〃	− 5					〃

Table VII. (Continued)

Pref.	No.	B.M.	Date 1952	Time	$\sum\delta T$	SD	0.9150 × SD	h (cm)	0.3086 × h	$E.T.$	6.93× $\sum\delta T$ Drift	adjust-ment	$\sum\delta g$	g 979.	Field Note No.
				h m	h m										
32	1833*		VI 26	8 46	9 28	6926	6337	27	8	− 3	66	14	1667	73819	44
〃	1810	378	〃	10 41	11 23	5081	4649	66	20	5	79	0	0	72152	〃

* Tsuyama 1st Primary School, Entrance.

Route 12_2 Okayama—B.M. 378—Okayama.

Pref.	No.	B.M.	Date 1952	Time	$\sum\delta T$	SD	0.9150 × SD	h (cm)	0.3086 × h	$E.T.$	−13.33 × $\sum\delta T$ Drift	$\sum\delta g$	g 979.	Field Note No.
				h m	h m									
32	Okayama		VI 25	8 45	0 00	4755	4351	27	8	−1	0	0	72055	44
〃	1810	378	〃	8 55	10	4844	4432	67	21	−1	−3	97	72152	〃
〃	〃	〃	VI 26	10 41		5081	4649	66	20	5				〃
〃	Okayama		〃	10 50	19	4987	4563	27	8	5	−4	0	72055	〃

Route 12_3 Okayama (No. 1796)—Okayama—Okayama (No. 1796).

Pref.	No.	B.M.	Date 1952	Time	$\sum\delta T$	SD	0.9150 × SD	h (cm)	0.3086 × h	$E.T.$	1.52× $\sum\delta T$ Drift	adjust-ment	$\sum\delta g$	g	Field Note No.
				h m	h m										
32	1796	O.$_1$*	VI 24	15 33	0 00	4854	4441	48	15	8	0	0	0	72274	44
〃	1809	Okayama W.S.**	〃	15 45	12	4824	4414	49	15	8	0	1	− 28	72246	〃
〃	Okayama		〃	17 10	1 37	4641	4247	27	8	3	2	11	−219	72055	〃
〃	〃		VI 23	16 50		4491	4109	〃	〃	− 1					43
〃	1796	O.$_1$	〃	15 12	3 15	4700	4301	52	16	10	5	0	0	72274	〃

* Okayama Prefecture Bench Mark. ** Weather Station Bench Mark.

Route 12_4 B.M. 381—Okayama—B.M. 381.

Pref.	No.	B.M.	Date 1952	Time	$\sum\delta T$	SD	0.9150 × SD	h (cm)	0.3086 × h	$E.T.$	5.42× $\sum\delta T$ Drift	$\sum\delta g$	g 979.	Field Note No.
				h m	h m									
32	1797	381	VI 24	15 16	0 00	4945	4525	72	22	12	0	0	72371	44
〃	1796	$O_{.1}$	〃	15 33	17	4854	4441	48	15	8	2	− 97	72274	〃
〃	〃	〃	VI 23	15 12		4700	4301	52	16	10				43
〃	Okayama		〃	16 50	1 55	4491	4109	27	8	− 1	10	−316	72055	〃
〃	〃		VI 24	8 43		4588	4198	〃	〃	3				〃
〃	1797	381	〃 〃	9 10	2 22	4921	4503	72	22	3	13	0	72371	〃

Route 12_5 B.M. 381—Funasaka Pass (No. 930)—B.M. 381.

Pref.	No.	B.M.	Date 1952	Time	$\sum\delta T$	SD	0.9150 × SD	h (cm)	0.3086 × h	$E.T.$	5.08× $\sum\delta T$ Drift	$\sum\delta g$	g 979.	Field Note No.
				h m	h m									
32	1797	381	VI 24	9 10	0 00	4921	4503	72	22	3	0	0	72371	43
〃	1798	382	〃	9 28	18	5055	4625	67	21	3	2	119	72490	〃
〃	1799	383	〃	9 40	30	5280	4831	59	18	8	3	326	72697	〃
〃	1800	385	〃	9 51	41	6165	5641	54	17	8	4	1134	73505	〃
〃	1801	387	〃	10 10	1 00	6322	5785	70	22	8	5	1282	73653	〃
〃	1802	389	〃	10 26	1 16	6300	5765	60	19	8	7	1257	73628	〃
〃	1803	391	〃	10 42	1 32	6214	5686	73	23	13	8	1186	73557	〃
〃	1804	393	〃	10 59	1 49	6422	5876	40	12	13	9	1364	73735	〃
〃	1805	395	〃	11 17	2 07	5374	4917	51	16	13	11	407	72778	〃
〃	1806	397	〃	11 33	2 23	5078	4646	64	20	16	12	142	72513	44
〃	1807	399	〃	11 48	2 38	4723	4322	58	18	16	13	− 185	72186	〃
27·32	930	Funasaka Pass P.B.*	〃	12 10	3 00	2756	2522	27	8	16	15	−1997	70374	〃
32	1808	400	〃	12 19	3 09	4300	3935	51	16	16	16	− 577	71794	〃
〃	1802	389	〃	14 27	5 17	6318	5781	60	19	15	27	1260	73631	〃
〃	1797	381	〃	15 16	6 06	4945	4525	72	22	12	31	0	72371	〃

* Funasaka Pass Prefecture Boundary.

Table VIII. Results along Route 13. (0.01 mgal.).

Route 13_1 B.M. 1120—B.M. 2254—Yonago.

Pref.	No.	B.M.	Date 1951	Time	$\sum\delta T$	SD	0.9150 × SD	h (cm)	0.3086 × h	$E.T.$	−0.71 × $\sum\delta T$ Drift	$\sum\delta g$	g 979.	Field Note No.
				h m	h m									
30	1123	1120	XII 13	15 42	0 00	5639	5160	70	22	−8	0	0	80548	27
31	1124	2254	〃	16 02	20	5421	4960	62	19	−8	0	−203	80345	〃
30	1125	Yonago W.S.*	〃	16 25	43	5441	4979	27	8	−8	0	−195	80353	〃
〃	1126	〃**	〃	16 42	1 00	5456	4992	55	17	−9	−1	−173	80375	〃
〃	Yonaga		〃	17 07	1 25	5609	5132	27	8	−9	−1	− 42	80506	〃

* Weather Station Seismometer Room, on the Surface of the Concrete Block for Seismometer Installation.
** Weather Station Bench Mark.

Route 13_2 B.M. 1120—B.M. 2226—B.M. 1120.

Pref.	No.	B.M.	Date 1951	Time	$\sum\delta T$	SD	0.9150 × SD	h (cm)	0.3086 × h	$E.T.$	6.22× $\sum\delta T$ Drift	adjustment	$\sum\delta g$	g 979.	Field Note No.
				h m	h m										
30	1123	1120	XII 14	9 27	0 00	5742	5254	68	21	−7	0	0	0	80548	27
〃	1127	2250	〃	9 50	23	5378	4921	60	19	−4	2	2	− 336	80212	〃
〃	1128	2248	〃	10 04	37	4389	4016	42	13	−4	4	7	− 1254	79294	〃
〃	1129	2246	〃	10 20	53	2865	2621	53	16	−4	6	14	− 2655	77893	〃
〃	1130	2244	〃	10 34	1 07	1406	1286	69	21	−3	7	21	− 3992	76556	〃
〃	〃	〃	〃	10 37		7335	6712	〃	〃	−3					〃
〃	1131	2242	〃	10 50	1 20	6154	5631	67	21	−3	8	27	− 5080	75468	〃
〃	1132	2239	〃	11 05	1 35	4783	4376	58	18	−3	10	33	− 6346	74202	〃
〃	1133	2237	〃	12 40	3 10	4195	3838	71	22	−2	20	36	− 6892	73656	28
〃	1134	2235	〃	12 53	3 23	3729	3412	61	19	−2	21	38	− 7324	73224	〃
〃	1135	2233	〃	13 07	3 37	2763	2528	54	17	−2	22	43	− 8216	72332	〃
〃		Kurosaka	〃	13 29	3 59	0395	0361	—	—	−2	25	54	−10414	70134	〃
〃		〃	〃	13 31		7488	6852	—	—	−3					〃
〃	1136	2231	〃	13 47	4 15	4422	4046	32	10	−3	27	69	−13227	67321	〃
〃	1137	2229	〃	14 08	4 36	1979	1811	56	17	−3	29	81	−15469	65079	〃

〃	1138	2227	〃	14 25	4 53	3533	3233	65	20	−3	30	73	−14037	66511	〃
32	1139	2226	〃	14 41	5 09	3194	2923	64	20	−5	32	75	−14353	66195	〃
〃	〃	〃	〃	14 44		0330	0302	〃	〃	−5					〃
30	1135	2233	〃	15 47	6 12	7025	6428	53	16	−7	39	43	− 8208	72340	〃
〃	〃	〃	〃	15 49		0451	0413	〃	〃	−7					〃
〃	1129	2246	〃	16 59	7 22	6498	5946	64	20	−9	46	14	− 2651	77897	〃
〃	〃	〃	〃	17 01		1328	1215	〃	〃	−9					〃
〃	1123	1120	〃	17 48	8 09	4213	3855	67	21	−8	51	0	0	80548	〃

Route 13_3 Tottori (No. 1070)—Kurayoshi—B.M. 1120—Yonago—Tottori (No. 1070).

Pref.	No.	B.M.	Date 1951	Time	$\sum\delta T$	SD	$0.9150 \times SD$	h (cm)	$0.3086 \times h$	$E.T.$	$4.62 \times \frac{\sum\delta T}{\text{Drift}}$	$\sum\delta g$	g 979.	Field Note No.
				h m	h m									
30	1070	Tottori · P.O.	XII 12	13 59	0 00	3842	3515	27	8	−6	0	0	80429	27
〃	1092	1068	〃	14 10	11	3819	3494	69	21	−6	1	− 9	80420	〃
〃	1093	Tottori W.S.*	〃	14 43	44	3803	3480	27	8	−8	3	− 40	80389	〃
〃	1094	〃**	〃	14 59	1 00	3810	3486	27	8	−8	5	− 36	80393	〃
〃	1095	1070	〃	15 15	1 16	4089	3741	78	24	−8	6	234	80663	〃
〃	1096	1072	〃	15 28	1 29	3932	3598	72	22	−8	7	88	80517	〃
〃	1097	1074	〃	15 44	1 45	3899	3568	46	14	−9	8	48	80477	〃
〃	1098	1076	〃	16 00	2 01	4188	3832	67	21	−9	9	318	80747	〃
〃	1099	1077	〃	16 10	2 11	4137	3785	69	21	−9	10	270	80699	〃
〃	Hamamura		〃	16 31	2 32	4175	3820	27	8	−8	12	291	80720	〃
〃	1100	1079	〃	16 46	2 47	3674	3362	48	15	−8	13	− 161	80268	〃
〃	1101	1081	〃	17 12	3 13	4216	3858	65	20	−8	15	338	80767	〃
〃	1102	1084	〃	17 34	3 35	3367	3081	71	22	−5	17	− 436	79993	〃
〃	1103	1086	〃	17 54	3 55	3444	3151	50	15	−5	18	− 374	80055	〃
〃	1104	1088	〃	18 09	4 10	3314	3032	60	19	−5	19	− 490	79939	〃
〃	1105	1090	〃	18 26	4 27	3310	3029	57	18	−5	21	− 496	79933	〃
〃	1106	1092	〃	18 43	4 44	2506	2293	43	13	−1	22	−1234	79195	〃
〃	1107	1093	〃	18 55	4 56	2693	2464	60	19	−1	23	−1058	79371	〃
〃	Kurayoshi		〃	19 03	5 04	2740	2507	27	8	−1	24	−1027	79402	〃
〃	〃		XII 13	9 05		4368	3997	〃	〃	−7				〃

* Weather Station, Entrance.
** Weather Station Seismometer Room, on the Surface of the Concrete Block for Seismometer Installation.

Table VIII. (Continued)

Pref.	No.	B.M.	Date 1951	Time	$\sum\delta T$	SD	0.9150 × SD	h (cm)	0.3086 × h	$E.T.$	4.62 × $\sum\delta T$ Drift	$\sum\delta g$	g 979.	Field Note No.
				h m	h m									
30	1107	1093	XII 13	9 27	5 26	4317	3950	60	19	−7	25	−1064	79365	27
〃	1108	Misasa B.H.*	〃	10 22	6 21	2654	2428	27	8	−4	30	−2599	77830	〃
〃	1109	Misasa Bridge	〃	10 36	6 35	2195	2008	77	24	−3	30	−3002	77427	〃
〃	1110	1095	〃	11 20	7 19	4714	4313	55	17	−3	34	− 708	79721	〃
〃	1111	1097	〃	11 43	7 42	5779	5288	57	18	−2	36	267	80696	〃
〃	1112	1099	〃	11 54	7 53	5278	4829	70	22	−2	36	− 188	80241	〃
〃	1113	1101	〃	12 08	8 07	4661	4265	51	16	−3	37	− 760	79669	〃
〃	1114	1102	〃	13 05	9 04	4760	4355	69	21	−3	42	− 670	79759	〃
〃	1115	1104	〃	13 20	9 19	4633	4239	55	17	−3	43	− 791	79638	〃
〃	1116	1106	〃	13 38	9 37	4256	3894	64	20	−5	44	−1136	79293	〃
〃	1117	1108	〃	13 52	9 51	4263	3901	64	20	−5	46	−1131	79298	〃
〃	1118	1110	〃	14 10	10 09	5154	4716	57	18	−5	47	− 319	80110	〃
〃	1119	1112	〃	14 33	10 32	5135	4699	41	13	−7	48	− 344	80085	〃
〃	1120	1114	〃	14 46	10 45	5010	4584	66	20	−7	50	− 454	79975	〃
〃	1121	1116	〃	15 01	11 00	5578	5104	66	20	−7	51	65	80494	〃
〃	1122	1118	〃	15 23	11 22	5566	5093	69	21	−7	53	53	80482	〃
〃	1123	1120	〃	15 42	11 41	5639	5160	70	22	−8	54	119	80548	〃
〃	〃	〃	XII 14	17 48		4213	3855	67	21	−8				28
〃	Yonago		〃	18 06	11 59	4183	3827	27	8	−8	55	77	80506	〃
〃	Tottori		〃	22 47	16 40	3880	3550	27	8	14	77	− 200	80229	〃
〃	〃		XII 15	9 57		3973	3635	〃	〃	−5				〃
〃	1070	Tottori P.O.	〃	10 11	16 54	4192	3836	27	8	−5	78	0	80429	〃

* Okayama University, Misasa Branch Hospital, Entrance.

Table IX. Results along Route 14. (0.01 mgal.).

Route 14_1 B.M. 378—Nishiebara—B.M. 1608—B.M. 378.

Pref.	No.	B.M.	Date 1952	Time	$\sum\delta T$	SD	0.9150 × SD	h (cm)	0.3086 × h	$E.T.$	8.54 × $\sum\delta T$ Drift	$\sum\delta g$	g 979.	Field Note No.
				h m	h m									
32	1810	378	VI 27	15 31	0 00	5906	5404	70	22	9	0	0	72152	45
〃	1855	J. 1587	〃	16 45	1 14	6296	5761	52	16	6	10	338	72490	〃
〃	1856	1589	〃	16 59	1 28	5690	5206	57	18	6	13	− 218	71934	〃
〃	1857	1591	〃	17 12	1 41	5262	4815	56	17	6	15	− 612	71540	〃
〃	1858	1593	〃	17 36	2 05	5596	5120	61	19	3	18	− 311	71841	〃
〃	1859	1595	〃	17 51	2 20	5628	5150	55	17	3	20	− 285	71867	〃
〃	1860	1597	〃	18 07	2 36	5476	5011	67	21	3	22	− 422	71730	〃
〃	1861	1600	〃	18 30	2 59	5708	5223	33	10	3	26	− 225	71927	〃
〃	1862	1602	〃	18 55	3 24	5007	4581	72	22	−1	29	− 862	71290	〃
〃	1863	1604	〃	19 09	3 38	4401	4027	52	16	−1	31	−1424	70728	〃
〃	Nishiebara		〃	19 20	3 49	4141	3789	27	8	−1	32	−1671	70481	〃
〃	〃		VI 28	8 56		4218	3859	〃	〃	−3				〃
〃	1864	1606	〃	9 20	4 13	3749	3430	56	17	−3	36	−2095	70057	〃
〃	1865	1608	〃	9 40	4 33	3761	3441	55	17	−2	39	−2086	70066	〃
〃	1810	378	〃	13 17	8 10	6061	5546	66	20	7	70	0	72152	〃

Route 14_2 Okayama—Niimi—B.M. 2226—Niimi—B.M. 378.

Pref.	No.	B.M.	Date 1952	Time	$\sum\delta T$	SD	0.9150 × SD	h (cm)	0.3086 × h	$E.T.$	8.18 × $\sum\delta T$ Drift	$\sum\delta g$	g 979.	Field Note No.
				h m	h m									
32	Okayama		VI 26	10 50	0 00	4987	4563	27	8	5	0	0	72055	44
〃	1834	376	〃	13 49	2 59	5180	4740	80	25	13	24	178	72233	〃
〃	1835	2181	〃	14 20	3 30	5159	4720	60	19	13	29	147	72202	〃
〃	1836	2183	〃	14 33	3 43	5017	4591	60	19	12	30	16	72071	〃
〃	1837	2185	〃	14 47	3 57	4706	4306	58	18	12	33	− 273	71782	〃

Table IX. (Continued)

Pref.	No.	B.M.	Date 1952	Time	$\sum\delta T$	SD	0.9150 × SD	h (cm)	0.3086 × h	$E.T.$	8.18 × $\sum\delta T$ Drift	$\sum\delta g$	g 979.	Field Note No.
				h m	h m									
32	1838	2187	VI 26	15 00	4 10	4453	4074	70	22	12	34	− 502	71553	44
〃	1839	2189	〃	15 10	4 20	4159	3805	24	7	12	35	− 787	71268	〃
〃	1840	2191	〃	15 30	4 40	4457	4078	67	21	12	38	− 503	71552	〃
〃	1841	2194	〃	15 53	5 03	4422	4046	48	15	9	42	− 548	71507	〃
〃	1842	2196	〃	16 35	5 45	4040	3697	62	19	5	47	− 902	71153	〃
〃	1843	2198	〃	16 49	5 59	3375	3088	66	20	5	49	−1512	70543	〃
〃	1844	2201	〃	17 04	6 14	3313	3031	64	20	5	51	−1571	70484	〃
〃	1845	2204	〃	17 21	6 31	4235	3875	53	16	5	53	− 733	71322	〃
〃	1846	2206	〃	17 45	6 55	3758	3439	60	19	1	56	−1173	70882	〃
〃	1847	2209	〃	18 06	7 16	3697	3383	40	12	1	60	−1240	70815	〃
〃	1848	2212	〃	18 29	7 39	3394	3106	58	18	1	63	−1514	70541	〃
〃	1849	2214	〃	18 51	8 01	3204	2932	74	23	− 4	65	−1690	70365	〃
〃	Niimi		〃	18 57	8 07	3235	2960	27	8	− 4	66	−1678	70377	〃
〃	〃		VI 27	8 35		3342	3058	〃	〃	− 3				45
〃	1850	2216	〃	9 00	8 32	2813	2574	57	18	− 3	69	−2155	69900	〃
〃	1850		〃	9 25	8 57	0696	0637	−	−	− 3	74	−4115	67940	〃
〃	〃		〃	9 32		6042	5528	−	−	− 2				〃
〃	1851	2219	〃	9 43	9 08	5321	4869	30	9	− 2	74	−4765	67290	〃
〃	1852	2221	〃	10 05	9 30	6859	6276	59	18	− 2	78	−3353	68702	〃
〃	1853	2223	〃	10 20	9 45	5885	5385	55	17	− 2	80	−4247	67808	〃
〃	1854	2225	〃	10 41	10 06	4493	4111	46	14	1	83	−5524	66531	〃
〃	1139	2226	〃	10 53	10 18	4121	3771	62	19	1	84	−5860	66195	〃
〃	〃	〃	〃	10 58		1178	1078	〃	〃	1				〃
〃	Niimi		〃	12 14	11 34	5758	5269	27	8	5	95	−1687	70368	〃
〃	〃		〃	12 18		3947	3612	〃	〃	5				〃
〃	1810	378	〃	15 31	14 47	5906	5404	70	22	9	121	97	72152	〃

Route 14_3 B.M. 378—B.M. 356—Kurashiki—B.M. 378.

Pref.	No.	B.M.	Date 1952	Time	$\Sigma\delta T$	SD	0.9150 × SD	h (cm)	0.3086 × h	$E.T.$	10.00× $\Sigma\delta T$ Drift	$\Sigma\delta g$	g 979.	Field Note No.
				h m	h m									
32	1810	378	VI 28	13 17	0 00	6061	5546	66	20	7	0	0	72152	45
〃	1866	373	〃	13 40	23	5968	5461	66	20	8	4	− 88	72064	〃
〃	1867	371	〃	13 54	37	5888	5388	71	22	8	6	− 161	71991	〃
〃	1868	369	〃	14 11	54	5679	5196	59	18	8	9	− 360	71792	〃
〃	1869	367	〃	14 25	1 08	6183	5657	14	4	8	11	85	72237	〃
〃	1870	365	〃	14 49	1 32	6344	5805	60	19	9	15	245	72397	〃
〃	1871	363	〃	15 03	1 46	6117	5597	80	25	9	18	40	72192	〃
〃	1872	361	〃	15 19	2 02	5576	5102	65	20	9	20	− 462	71690	〃
〃	1873	359	〃	15 37	2 20	5645	5165	75	23	8	23	− 400	71752	〃
〃	1874	356	〃	16 30	3 13	4410	4035	31	10	8	32	−1552	70600	〃
〃	1875	357	〃	16 45	3 28	5648	5168	58	18	5	35	− 917	71235	〃
〃	Kurashiki		〃	17 55	4 38	6012	5501	27	8	2	46	− 108	72044	〃
〃	〃		VI 29	13 11		6141	5619	〃	〃	3				〃
〃	1810	378	〃	13 49	5 16	6250	5719	70	22	4	53	0	72152	〃

Table X. Results along Route 15. (0.01 mgal.).

Route 15_1 Hamada—Prefecture Boundary (No. 1159)—Hamada.

Pref.	No.	B.M.	Date 1951	Time	$\sum\delta T$	SD	0.9150 × SD	h (cm)	0.3086 × h	$E.T.$	0.44 × $\sum\delta T$ Drift	$\sum\delta g$	g 979.	Field Note No.
				h m	h m									
31	Hamada		XII 18	8 18	0 00	5027	4600	27	8	−5	0	0	76038	28
〃	1143	3029	〃	8 51	33	5023	4596	69	21	−7	0	7	76045	〃
〃	1144	3031	〃	9 03	45	4959	4537	58	18	−7	0	− 55	75983	〃
〃	1145	3033	〃	9 20	1 02	4794	4387	30	9	−7	0	− 214	75824	〃
〃	1146	3035	〃	9 31	1 13	3413	3123	56	17	−6	1	−1470	74563	〃
〃	1147	3037	〃	9 43	1 25	3135	2869	41	13	−6	1	−1728	74310	〃
〃	1148	3040	〃	9 59	1 41	2646	2421	55	17	−6	1	−2172	73866	〃
〃	1149	3042	〃	10 09	1 51	1347	1233	44	14	−6	1	−3363	72675	〃
〃	1150	3044	〃	10 26	2 08	2344	2145	28	9	−6	1	−2456	73582	〃
〃	1151	3046	〃	10 36	2 18	1605	1469	34	10	−6	1	−3131	72907	〃
〃	1152	3047	〃	10 47	2 29	1127	1031	52	16	−6	1	−3563	72475	〃
〃	〃	〃	〃	10 52		4988	4564	〃	〃	−6				〃
〃	1153	3049	〃	11 02	2 39	4646	4251	60	19	−6	1	−3873	72165	〃
〃	1154	3051	〃	12 38	4 15	5117	4682	41	13	−4	2	−3447	72591	〃
〃	1155	3053	〃	12 52	4 29	4695	4296	50	15	−4	2	−3831	72207	〃
〃	1156	3055	〃	13 05	4 42	4451	4073	41	13	−4	2	−4056	71982	〃
〃	1157	3057	〃	13 25	5 02	2884	2639	40	12	−4	2	−5491	70547	〃
〃	1158	3059	〃	13 42	5 19	3217	2944	63	19	−2	2	−5177	70861	〃
34·31	1159	P.B.*	〃	13 48	5 25	3131	2865	27	8	−2	2	−5267	70771	〃
34	〃	〃	〃	13 53		0349	0319	〃	〃	−2				〃
31	1160	6**	〃	16 58	8 30	6264	5732	57	18	−2	4	154	76192	〃
〃	Hamada		〃	17 26	8 58	6107	5588	27	8	−2	4	0	76038	〃

* Prefecture Boundary. ** Hamada Tide Gauge Station Bench Mark.

Route 15_2 Hamada—B.M. 3166—Hamada.

Pref.	No.	B.M.	Date 1951	Time	$\Sigma\delta T$	SD	0.9150 × SD	h (cm)	0.3086 × h	$E.T.$	3.24 × $\Sigma\delta T$ Drift	adjustment	$\Sigma\delta g$	g 979.	Field Note No.
				h m	h m										
31	Hamada		XII 19	9 00	0 00	6175	5650	27	8	−5	0	0	0	76038	28
〃	1161	J. 3028	〃	10 14	1 14	5966	5459	112	35	−7	4	0	− 170	75868	〃
〃	1162	3190	〃	10 32	1 32	1713	1567	59	18	−6	5	6	− 4085	71953	〃
〃	〃	〃	〃	10 35		7071	6470	〃	〃	−6					〃
〃	1163	3186	〃	11 01	1 58	4532	4147	69	21	−6	6	10	− 6410	69628	〃
〃	1164	3184	〃	11 14	2 11	4906	4489	44	14	−6	7	9	− 6075	69963	〃
〃	1165	3182	〃	11 27	2 24	4075	3729	57	18	−6	8	10	− 6833	69205	〃
〃	1166	3180	〃	11 41	2 38	0764	0699	31	10	−5	8	15	− 9875	66163	〃
〃	〃	〃	〃	11 44		5478	5012	〃	〃	−5					〃
〃	1167	3178	〃	11 58	2 52	3612	3305	49	15	−5	9	18	−11581	64457	〃
〃	1168	3176	〃	12 13	3 07	6327	5789	46	14	−5	10	14	− 9095	66943	〃
〃	1169	3169	〃	12 55	3 49	5798	5305	43	13	−3	12	15	− 9581	66457	〃
33	1170	3166	〃	13 21	4 15	0466	0426	67	21	−3	14	22	−14461	61577	〃
31	1169	3169	〃	13 42	4 36	5793	5301	47	15	−1	15	15	− 9584	66454	〃
〃	〃	〃	〃	13 45		1009	0923	〃	〃	−1					〃
〃	1171	3171	〃	13 56	4 47	2750	2516	41	13	−1	16	12	− 7991	68047	〃
〃	1172	3173	〃	14 08	4 59	4171	3816	45	14	−1	16	10	− 6688	69350	〃
〃	〃	〃	〃	14 10		0127	0116	〃	〃	−1					〃
〃	1173	3188	〃	15 41	6 30	2158	1975	66	20	1	21	7	− 4823	71215	〃
〃	〃	〃	〃	15 43		0270	0247	〃	〃	1					〃
〃	Hamada		〃	16 16	7 03	5549	5077	27	8	1	23	0	0	76038	〃

Route 15_3 Matsue—Hamada—Yunotsu—Izumo—B.M. 2281—Matsue.

Pref.	No.	B.M.	Date 1951	Time	$\Sigma\delta T$	SD	0.9150 × SD	h (cm)	0.3086 × h	$E.T.$	3.49 × $\Sigma\delta T$ Drift	$\Sigma\delta g$	g 979.	Field Note No.
				h m	h m									
31		Matsue P.O.*	XII 17	11 18	0 00	7148	6540	27	8	−6	0	0	80627	28
〃	Hamada		〃	15 40	4 22	2145	1963	27	8	−3	15	−4589	76038	〃
〃	〃		XII 19	16 16		5549	5077	〃	〃	1				〃
〃	1174	3026	〃	16 48	4 54	5423	4962	73	23	0	17	−4692	75935	29
〃	1175	3023	〃	17 03	5 09	4939	4519	54	17	0	18	−5142	75485	〃
〃	1176	3021	〃	17 14	5 20	5099	4666	58	18	0	18	−4994	75633	〃
〃	1177	3019	〃	17 25	5 31	6560	6002	61	19	0	19	−3658	76969	〃
〃	〃	〃	〃	17 28		3973	3635	〃	〃	0				〃
〃	1178	3017	〃	17 39	5 42	4716	4315	43	13	−1	20	−2986	77641	〃
〃	1179	3014	〃	17 54	5 57	5745	5257	54	17	−1	21	−2041	78586	〃
〃	〃	〃	〃	17 56		3529	3229	〃	〃	−1				〃
〃	1180	3012	〃	18 10	6 11	4110	3761	49	15	−1	22	−1512	79115	〃
〃	1181	3010	〃	18 25	6 26	2679	2451	55	17	−1	22	−2820	77807	〃
〃	Yunotsu		〃	19 20	7 21	2814	2575	27	8	−3	26	−2711	77916	〃
〃	〃		XII 20	9 47		2895	2649	〃	〃	−5				〃
〃	1182	3008	〃	10 50	8 24	0707	0647	34	10	−6	29	−4715	75912	〃
〃	〃	〃	〃	10 53		5527	5057	〃	〃	−6				〃
〃	1183	3006	〃	11 06	8 37	3409	3119	53	16	−6	30	−6648	73979	〃
〃	1184	3003	〃	11 26	8 57	2013	1842	60	19	−6	31	−7923	72704	〃
〃	1185	3000	〃	11 46	9 17	2490	2278	49	15	−6	32	−7492	73135	〃
〃	1186	2998	〃	12 02	9 33	3452	3159	67	21	−6	34	−6607	74020	〃
〃	1187	F. 30	〃	12 21	9 52	5143	4706	38	12	−6	35	−5070	75557	〃
〃	〃	〃	〃	12 24		1034	0946	〃	〃	−6				〃
〃	1188	2993	〃	12 42	10 10	2867	2623	52	16	−5	36	−3389	77238	〃
〃	1189	2991	〃	12 59	10 27	3742	3424	47	15	−4	37	−2589	78038	〃

* Shimane Prefecture Office.

〃	1190		2989	〃	14 01	11 29	3470	3175	47	15	−2	40	−2839	77788	〃
〃	1191		2987	〃	14 16	11 44	3811	3487	58	18	−2	41	−2525	78102	〃
〃	1192		2985	〃	14 30	11 58	1768	1618	40	12	−2	42	−4401	76226	〃
〃	1193		2983	〃	14 50	12 18	4410	4035	47	15	0	43	−1980	78647	〃
〃	1194		2981	〃	15 06	12 34	4110	3761	40	12	0	44	−2258	78369	〃
〃	1195		2979	〃	15 22	12 50	4227	3868	55	17	0	45	−2147	78480	〃
〃	1196		2977	〃	15 32	13 00	4224	3865	50	15	1	45	−2151	78476	〃
〃	1197		2975	〃	15 46	13 14	4860	4447	60	19	1	46	−1566	79061	〃
〃	1198		2973	〃	15 59	13 27	5185	4744	61	19	1	47	−1270	79357	〃
〃	1199		2971	〃	16 15	13 43	5672	5190	55	17	1	48	− 827	79800	〃
〃	Izumo			〃	16 50	14 18	5469	5004	27	8	2	50	−1023	79604	〃
〃	〃			XII 21	8 55		5549	5077	〃	〃	−1				〃
〃	1200		2969	〃	9 30	14 53	6341	5802	65	20	−1	52	− 288	80339	〃
〃	1201		2271	〃	9 43	15 06	6829	6249	55	17	−4	53	152	80779	〃
〃	1202		2281	〃	10 02	15 25	7080	6478	57	18	−4	54	381	81008	〃
〃	〃		〃	XII 22	9 48		5343	4889	59	〃	−5				〃
〃	1220		2279	〃	10 00	15 37	5086	4654	55	17	−5	54	145	80772	〃
〃	1221		2277	〃	10 14	15 51	4937	4517	56	17	−5	55	7	80634	〃
〃	1222		2275	〃	10 25	16 02	4798	4390	42	13	−5	56	− 125	80502	〃
〃	1223		2273	〃	10 37	16 14	4729	4327	65	20	−6	57	− 183	80444	〃
〃		Matsue	P.O.	〃	11 00	16 37	4943	4523	27	8	−6	58	0	80627	〃

Route 15_4 B.M. 2281—Akana Pass—Kitsuki—B.M. 2281.

Pref.	No.	B.M.	Date 1951	Time	$\Sigma\delta T$	SD	0.9150 × SD	h (cm)	0.3086 × h	$E.T.$	$1.59\times\Sigma\delta T$ Drift	adjustment	$\Sigma\delta g$	g 979.	Field Note No.
				h m	h m										
31	1202	2281	XII 21	10 02	0 00	7080	6478	57	18	−4	0	0	0	81008	29
〃	1203	2283	〃	10 13	11	5550	5078	57	18	−4	0	2	− 1402	79606	〃
〃	1204	2285	〃	10 24	22	5555	5083	61	19	−4	1	2	− 1397	79611	〃
〃	1205	2287	〃	10 37	35	4672	4275	57	18	−6	1	3	− 2209	78799	〃
〃	1206	2289	〃	11 21	1 19	4411	4036	69	21	−6	2	3	− 2446	78562	〃
〃	1207	2292	〃	11 37	1 35	2879	2634	68	21	−6	3	5	− 3851	77157	〃
〃	1208	2295	〃	11 52	1 50	1222	1118	57	18	−6	3	6	− 5371	75637	〃
〃	〃	〃	〃	11 55		7030	6432	〃	〃	−6					〃
〃	1209	2297	〃	12 05	2 00	5619	5141	45	14	−6	3	8	− 6668	74340	〃
〃	1210	2299	〃	12 16	2 11	4028	3686	50	15	−6	3	10	− 8124	72884	〃
〃	1211	2301	〃	12 30	2 25	1564	1431	40	12	−6	4	12	−10385	70623	〃
〃	〃	〃	〃	12 31		7002	6407	〃	〃	−6					〃
〃	1212	2304	〃	12 49	2 43	2283	2089	59	18	−6	4	17	−14702	66306	〃
〃	1213	2307	〃	13 07	3 01	2717	2486	45	14	−6	5	17	−14310	66698	〃
〃	1214	2309	〃	14 36	4 30	2578	2359	48	15	−2	7	17	−14434	66574	〃
〃	1215	2311	〃	14 48	4 42	2618	2395	53	16	−2	7	17	−14397	66611	〃
〃	1216	2314	〃	15 03	4 57	2391	2188	62	19	−2	8	17	−14602	66406	〃
〃	1217	2316	〃	15 14	5 08	1156	1058	56	17	−2	8	19	−15736	65272	〃
〃	〃	〃	〃	15 16		6025	5513	〃	〃	−2					〃
〃	1218	Akana Pass P.B.*	〃	15 31	5 23	3010	2754	44	14	1	9	22	−18499	62509	〃
〃	〃	〃	〃	15 33		0157	0144	〃	〃	1					〃
〃	1219	2318	〃	15 42	5 32	0446	0408	71	22	1	9	22	−18227	62781	〃
〃	1213	2307	〃	16 28	6 18	4753	4349	−	−	1	10	17	−14304	66704	〃
〃	〃	〃	〃	16 30		0127	0116	−	−	1					〃
〃	1210	2299	〃	17 07	6 55	6865	6281	49	15	2	11	10	− 8117	72891	〃

* Akana Pass Prefecture Boundary.

〃	〃	〃	〃	17 09		0089	0081	〃	〃	2					〃
〃	1205	2287	〃	17 58	7 44	6570	6012	51	16	4	12	3	− 2177	78831	〃
〃	Kitsuki	〃	〃	18 07	7 53	6623	6060	27	8	4	13	3	− 2138	78870	〃
〃	〃		XII 22	8 56		3018	2761	〃	〃	−3					〃
〃	1202	2281	〃	9 48	8 45	5343	4889	59	18	−5	14	0	0	81008	〃

Route 15_5 Matsue—B.M. 2254—B.M. 2275—Tamatsukuri—Matsue.

Pref.	No.	B.M.	Date 1951	Time	$\sum\delta T$	SD	0.9150 × SD	h (cm)	0.3086 × h	$E.T.$	3.06× $\sum\delta T$ Drift	$\sum\delta g$	g 979.	Field Note No.
				h m	h m									
31		Matsue P.O.	XII 22	11 00	0 00	4943	4523	27	8	−6	0	0	80627	29
〃	1224	Matsue W.S.*	〃	12 08	1 08	4249	3888	27	8	−6	3	− 638	79989	30
〃	1225	〃**	〃	12 15	1 15	4260	3898	−	−	−6	4	− 637	79990	〃
〃	1226	2265	〃	12 41	1 41	3860	3532	48	15	−6	5	− 989	79638	〃
〃	1227	2263	〃	13 00	2 00	4291	3926	67	21	−6	6	− 590	80037	〃
〃	1228	2261	〃	13 14	2 14	4577	4188	53	16	−6	7	− 334	80293	〃
〃	1229	2259	〃	13 28	2 28	4643	4248	44	14	−6	8	− 277	80350	〃
〃	1230	2257	〃	13 44	2 44	4910	4493	56	17	−3	8	− 26	80601	〃
〃	1124	2254	〃	14 02	3 02	4629	4236	61	19	−3	9	− 282	80345	〃
〃	1231	2267	〃	14 56	3 56	4374	4002	52	16	−1	12	− 520	80107	〃
〃	1222	2275	〃	15 22	4 22	4795	4387	47	15	−1	13	− 137	80490	〃
〃	Tamatsukuri		〃	19 38	8 38	4897	4481	27	8	8	26	− 54	80573	〃
〃	〃		XII 23	9 00		4978	4555	〃	〃	−1				〃
〃		Matsue P.O.	〃	10 09	9 47	5044	4615	27	8	−3	30	0	80627	〃

* Weather Station Seismometer Room, on the Surface of the Concrete Block for Seismometer Installation.

** Weather Station Bench Mark.

Table XI. Results along Route 16. (0.01 mgal.).

Route 16_1 B.M. **141**—B.M. 3454—B.M. **141**.

Pref.	No.	B.M.	Date 1952	Time	$\sum\delta T$	SD	0.9150 × SD	h (cm)	0.3086 × h	$E.T.$	11.96× $\sum\delta T$ Drift	$\sum\delta g$	g 979.	Field Note No.
				h m	h m									
33	2285	**141**	VIII 27	17 55	0 00	2083	1906	64	20	−4	0	0	68495	52
〃	2286	Kinoe Tide Gauge	〃	20 13	2 18	1054	0964	27	8	−6	28	− 984	67511	〃
〃	2287.2	〃	VIII 28	7 17		3526	3226	〃	〃	7				〃
37	2288	3447	〃	10 51	5 52	3470	3175	46	14	−2	71	−1081	67414	〃
〃	2289	3448	〃	11 48	6 49	4028	3686	103	32	−2	81	− 562	67933	〃
〃	2290	3449	〃	12 07	7 08	4095	3747	62	19	−2	85	− 518	67977	〃
〃	2291	3450	〃	12 24	7 25	4049	3705	47	15	−2	89	− 568	67927	〃
〃	2292	3451	〃	13 27	8 28	2814	2575	68	21	−2	102	−1705	66790	〃
〃	2293	3453	〃	13 53	8 54	4914	4496	82	25	−2	106	216	68711	〃
〃	2294	3454	〃	14 06	9 07	4904	4487	36	11	−2	109	190	68685	〃
33	2295	**141**	〃	16 11	11 12	4715	4314	67	21	−4	134	0	68495	〃

Route 16_2 Hiroshima Castle—Waki—Hiroshima Castle.

Pref.	No.	B.M.	Date 1952	Time	$\sum\delta T$	SD	0.9150 × SD	h (cm)	0.3086 × h	$E.T.$	16.03× $\sum\delta T$ Drift	$\sum\delta g$	g 979.	Field Note No.
				h m	h m									
33	2314	Hiroshima C.*	VIII 29	13 32	0 00	3860	3532	−20	− 6	−4	0	0	66982	52
〃	2315	1670	〃	14 17	45	3507	3209	37	11	−4	13	− 319	66663	〃
〃	2316	1673	〃	14 50	1 18	3091	2828	66	20	−4	21	− 699	66283	〃
〃	2317	1675	〃	15 14	1 42	2681	2453	63	19	−4	27	−1081	65901	〃
〃	2318	1677	〃	16 35	3 03	2578	2359	58	18	−5	50	−1200	65782	〃

* Castle, Monument.

B.M. printed in Gothic type are 2nd order bench marks.

〃	2319		1679	〃	16 46	3 14	2214	2026	65	20	−5	51	−1532	65450	〃
〃	2320		1681	〃	17 03	3 31	2057	1882	69	21	−5	56	−1680	65302	〃
〃	2321		1683	〃	17 17	3 45	1986	1817	54	17	−5	61	−1754	65228	〃
〃	2322		1685	〃	17 34	4 02	2013	1842	63	19	−6	64	−1731	65251	〃
34	2323		Waki	〃	17 51	4 19	1954	1788	27	8	−6	69	−1801	65181	〃
33	2324.1	Hiroshima	C.	〃	19 18	5 46	3964	3627	−22	− 7	−5	93	0	66982	〃

Ronte 16_3 B.M. **302**—Hiroshima Castle—B.M. 1650.

Pref.	No.	B.M.	Date 1952	Time	$\sum\delta T$	SD	0.9150 × SD	h (cm)	0.3086 × h	$E.T.$	10.60× $\sum\delta T$ Drift	$\sum\delta g$	g 979.	Field Note No.
				h m	h m									
33	2306	**302**	VIII 29	10 23	0 00	4542	4156	62	19	4	0	0	67673	52
〃	2307	**305**	〃	10 43	20	3642	3332	75	23	1	3	− 826	66847	〃
〃	2308	**308**	〃	11 06	43	3827	3502	69	21	1	7	− 662	67011	〃
〃	2309	**311**	〃	11 26	1 03	3629	3321	66	20	1	12	− 849	66824	〃
〃	2310	**314**	〃	12 23	2 00	3406	3116	69	21	−2	21	−1065	66608	〃
〃	2311	**317**	〃	12 39	2 16	3338	3054	61	19	−3	24	−1133	66540	〃
〃	2312	**320**	〃	12 55	2 32	3579	3275	65	20	−3	27	− 914	66759	〃
〃	2313	**322**	〃	13 06	2 43	4083	3736	64	20	−3	29	− 455	67218	〃
〃	2314	Hiroshima	C.	〃	13 32	3 09	3860	3532	−20	− 6	−4	34	− 691	66982	〃
〃	2245		〃	VIII 26	8 54		6336	5797	−23	− 7	−2				51
〃	2246	Hiroshima	M.O.*	〃	9 33	3 48	5384	4926	47	15	−3	40	−1547	66126	〃
〃	2247	Enami	△**	〃	9 43	3 58	5198	4756	35	11	−3	42	−1723	65950	〃
〃	2248		1666	〃	10 43	4 58	6695	6126	74	23	−3	53	− 352	67321	〃
〃	2249		1664	〃	11 00	5 15	6735	6163	75	23	−2	56	− 317	67356	〃
〃	2250		1662	〃	11 16	5 31	6778	6202	58	18	−2	58	− 285	67388	〃
〃	2251		1660	〃	11 38	5 53	6026	5514	51	16	−1	63	− 979	66694	〃
〃	2252		1658	〃	11 58	6 13	5602	5126	52	16	−1	66	−1370	66303	〃
〃	2253		1656	〃	12 11	6 26	3979	3641	37	11	−1	68	−2862	64811	〃
〃	2254		1654	〃	12 27	6 42	2515	2301	80	25	−1	71	−4191	63482	〃
〃	2255		1652	〃	12 42	6 57	3083	2821	97	30	1	74	−3667	64006	〃
〃	2256		1650	〃	14 10	8 25	3520	3221	94	29	2	89	−3282	64391	〃

* Meteorological Observatory Bench Mark. ** Triangulation Point.
B.M. printed in Gothic type are 2nd order bench marks.

Route 16_4 B.M. 1632—B.M. **141**—B.M. **302**—B.M. 1650—B.M. 1632.

Pref.	No.	B.M.	Date 1952	Time	$\sum\delta T$	SD	0.9150 × SD	h (cm)	0.3086 × h	$E.T.$	12.00× $\sum\delta T$ Drift	$\sum\delta g$	g 979.	Field Note No.
				h m	h m									
33	2279	1632	VIII 27	15 34	0 00	2767	2532	57	18	−2	0	0	69150	52
〃	2280	**131**	〃	15 57	23	2646	2421	63	19	−2	5	− 115	69035	〃
〃	2281	**133**	〃	16 21	47	2785	2548	63	19	−2	10	7	69157	〃
〃	2282	**135**	〃	16 35	1 01	2670	2443	60	19	−2	12	− 100	69050	〃
〃	2283	3457	〃	17 12	1 38	0671	0614	69	21	−2	19	−1934	67216	〃
〃	2284	**138**	〃	17 36	2 02	2057	1882	56	17	−4	24	− 677	68473	〃
〃	2285	**141**	〃	17 55	2 21	2083	1906	64	20	−4	29	− 655	68495	〃
〃	2295	〃	VIII 28	16 11		4715	4314	67	21	−4				〃
〃	2296	**143**	〃	17 28	3 38	4783	4376	20	6	−4	43	− 622	68528	〃
〃	2297	**293**	〃	18 10	4 20	3962	3625	60	19	−4	52	−1369	67781	〃
〃	2298	**296**	〃	18 31	4 41	4615	4223	94	29	−5	56	− 766	68384	〃
〃	2299	**299**	〃	18 48	4 58	2408	2203	51	16	−5	60	−2803	66347	〃
〃	2300	**302**	〃	19 09	5 19	3859	3531	59	18	−5	64	−1477	67673	〃
〃	2301	**327**	〃	19 48	5 58	0509	0466	62	19	−6	72	−4550	64600	〃
〃	2302	**329**	〃	20 01	6 11	0566	0518	65	20	−6	74	−4499	64651	〃
〃	2303.$_1$	**331**	〃	20 15	6 25	0550	0503	69	21	−6	77	−4516	64634	〃
〃	2303.$_2$	〃	〃	20 21		1159	1060	〃	〃	−6				〃
〃	2304	1650	〃	20 40	6 44	0887	0812	94	29	−6	80	−4759	64391	〃
〃	2256	〃	VIII 26	14 10		3520	3221	〃	〃	2				51
〃	2257	1648	〃	14 25	6 59	1554	1422	34	10	2	84	−6581	62569	〃
〃	2258	1645	〃	14 52	7 26	5455	4991	52	16	2	89	−3011	66139	〃
〃	2259	1643	〃	15 16	7 50	7349	6724	53	16	2	94	−1283	67867	〃
〃	2260	1640	〃	15 43	8 17	6205	5678	39	12	0	100	−2341	66809	〃
〃	2261.$_1$	1639	〃	16 13	8 47	7825	7160	60	19	0	106	− 858	68292	〃
〃	2261.$_2$	〃	〃	16 16		1591	1456	〃	〃	0				〃
〃	2262	3459	〃	16 37	9 08	2300	2105	62	19	−2	109	− 214	68936	〃
〃	2263	J. 1637	〃	16 53	9 24	2922	2674	116	36	−2	113	368	69518	〃
〃	2264	1635	〃	17 05	9 36	2791	2554	66	20	−2	115	230	69380	〃
〃	2265	1633	〃	17 15	9 46	2758	2524	220	68	−2	118	245	69395	〃
〃	2266	1632	〃	17 27	9 58	2547	2331	58	18	−2	120	0	69150	〃

B.M. printed in Gothic type are 2nd order bench marks.

Route 16_5 B.M. 1632—B.M. 1608—B.M. 1632.

Pref.	No.	B.M.	Date 1952	Time	$\sum\delta T$	SD	0.9150 × SD	h (cm)	0.3086 × h	$E.T.$	13.19× $\sum\delta T$ Drift	$\sum\delta g$	g 979.	Field Note No.
				h m	h m									
33	2266	1632	VIII 26	17 27	0 00	2547	2331	58	18	−2	0	0	69150	51
〃	2267	1629	〃	17 54	27	2536	2320	61	19	−4	7	− 19	69131	〃
〃	2268	1627	〃	18 10	43	2519	2305	60	19	−4	9	− 36	69114	52
〃	2269	1625	〃	18 26	59	2959	2707	104	32	−4	13	375	69525	〃
〃	2270	1622	〃	18 48	1 21	3176	2906	16	5	−6	18	540	69690	〃
〃	2271	1619	〃	19 10	1 43	3680	3367	68	21	−6	22	1013	70163	〃
〃	2272	1617	〃	19 28	2 01	3883	3553	55	17	−6	26	1191	70341	〃
〃	2273	1615	〃	19 43	2 16	4132	3781	47	15	−7	30	1412	70562	〃
〃	2274	〃	VIII 27	10 37		4244	3883	45	14	−2				〃
〃	2275	1613	〃	10 50	2 29	4363	3992	54	17	−2	33	1521	70671	〃
〃	2276	1611	〃	11 08	2 47	4090	3742	54	17	−2	37	1267	70417	〃
〃	2277	1609	〃	11 20	2 59	3790	3468	50	15	−2	40	988	70138	〃
32	2278	1608	〃	11 29	3 08	3716	3400	39	12	−2	41	916	70066	〃
33	2279	1632	〃	15 34	7 13	2767	2532	57	18	−2	95	0	69150	〃

Table XII. Results along Route 17. (0.01 mgal.).

Route 17_1 Hiroshima Castle—B.M. J. 2357—B.M. 3166—Hiroshima Castle.

Pref.	No.	B.M.	Date 1952	Time	$\sum\delta T$	SD	0.9150 × SD	h (cm)	0.3086 × h	$E.T.$	10.26× $\sum\delta T$ Drift	$\sum\delta g$	g 979.	Field Note No.
				h m	h m									
33	2203	Hiroshima C.	VIII 24	8 26	0 00	3710	3395	−24	− 7	−7	0	0	66982	50
〃	2204	2363	〃	8 48	22	3752	3433	62	19	−5	4	62	67044	〃
〃	2205	2361	〃	9 05	39	4035	3692	65	20	−5	7	319	67301	〃
〃	2206	2359	〃	9 20	54	4317	3950	49	15	−5	9	570	67552	〃
〃	2207	J. 2357	〃	9 32	1 06	4776	4370	56	17	−1	11	994	67976	〃
〃	2230	〃	VIII 25	11 47		5057	4627	58	18	2				51
〃	2231	3142	〃	12 02	1 21	4250	3889	58	18	2	14	253	67235	〃
〃	2232	3145	〃	12 20	1 39	4162	3808	58	18	2	17	169	67151	〃
〃	2233	3147	〃	12 40	1 59	2849	2607	56	17	4	21	−1035	65947	〃
〃	$2234._1$	3148	〃	12 53	2 12	1463	1339	56	17	4	23	−2305	64677	〃
〃	$2234._2$	〃	〃	12 58		7001	6406	〃	〃	4				〃
〃	2235	3151	〃	13 15	2 29	4434	4057	55	17	5	26	−4656	62326	〃
〃	2236	3153	〃	13 27	2 41	6920	6332	53	16	5	28	−2384	64598	〃
〃	2237	3159	〃	14 51	4 05	6670	6103	72	22	4	42	−2622	64360	〃
〃	2238	3161	〃	15 05	4 19	6839	6258	62	19	4	44	−2472	64510	〃
〃	2239	3164	〃	15 20	4 34	6033	5520	56	17	4	47	−3215	63767	〃
〃	$2240._1$	3166	〃	15 40	4 54	3643	3333	63	19	2	50	−5405	61577	〃
〃	$2240._2$	〃	〃	15 45		0229	0210	〃	〃	2				〃
〃	2241	3157	〃	16 31	5 40	4674	4277	75	23	−2	58	−1346	65636	〃
〃	2242	3155	〃	16 47	5 56	4715	4314	68	21	−2	61	−1314	65668	〃
〃	2243	J. 2357	〃	17 49	6 58	7278	6659	57	18	−5	72	1014	67996	〃
〃	2244	Hiroshima C.	〃	18 26	7 35	6202	5675	−24	− 7	−4	78	0	66982	〃

Route 17_2 B.M. J. 2357—Akana Pass—B.M. J. 2357.

Pref.	No.	B.M.	Date 1952	Time	$\Sigma\delta T$	SD	$0.9150 \times SD$	h (cm)	$0.3086 \times h$	$E.T.$	$10.40 \times \Sigma\delta T$ Drift	$\Sigma\delta g$	g 979.	Field Note No.
				h m	h m									
33	2207	J. 2357	VIII 24	9 32	0 00	4776	4370	56	17	−1	0	0	67986	50
〃	2208	2355	〃	9 45	13	4381	4009	91	28	−1	2	− 352	67634	51
〃	2209	2353	〃	9 54	22	2946	2696	55	17	−1	4	−1678	66308	〃
〃	2210	2350	〃	10 09	37	1128	1032	50	15	−1	6	−3346	64640	〃
〃	2211	2347	〃	10 22	50	2685	2457	53	16	−1	8	−1922	66064	〃
〃	2212	2345	〃	10 35	1 03	2946	2696	45	14	3	11	−1684	66302	〃
〃	2213	2343	〃	10 46	1 14	3003	2748	54	17	3	12	−1630	66356	〃
〃	2214	2341	〃	12 33	3 01	3079	2817	73	23	7	31	−1570	66416	〃
〃	2215	2339	〃	12 45	3 13	3752	3433	67	21	7	33	− 958	67028	〃
〃	2216	2337	〃	13 09	3 37	4478	4097	26	8	7	37	− 311	67675	〃
〃	2217	2334	〃	13 28	3 56	4883	4468	49	15	7	41	63	68049	〃
〃	2218	2331	〃	13 43	4 11	5734	5247	70	22	7	44	846	68832	〃
〃	2219	2329	〃	13 56	4 24	5641	5162	49	15	7	46	752	68738	〃
〃	2220	2327	〃	14 08	4 36	5543	5072	63	19	7	48	664	68650	〃
〃	2221	2325	〃	14 20	4 48	5322	4870	62	19	7	50	460	68446	〃
〃	2222	2323	〃	14 32	5 00	4014	3673	49	15	4	52	− 746	67240	〃
〃	$2223._1$	2321	〃	14 45	5 13	2297	2102	50	15	4	54	−2319	65667	〃
〃	$2223._2$	〃	〃	14 50		7020	6423	〃	〃	4				〃
〃	2224	2319	〃	15 15	5 38	5021	4594	78	24	4	58	−4143	63843	〃
31	2225	Akana Pass P.B.	〃	15 27	5 50	3577	3273	41	13	4	60	−5477	62509	〃
33	$2226._1$	2321	〃	15 54	6 17	7037	6439	54	17	1	66	−2316	65670	〃
〃	$2226._2$	〃	〃	15 58		2353	2153	〃	〃	1				〃
〃	2227	2330	〃	16 37	6 56	5523	5054	55	17	−4	72	574	68560	〃
〃	2228	2331	〃	16 52	7 11	5817	5323	72	22	−4	75	845	68831	〃
〃	2229	〃	VIII 25	9 01		5952	5446	〃	〃	−5				〃
〃	2230	J. 2357	〃	11 47	9 57	5057	4627	58	18	2	104	0	67986	〃

Table XIII. Results along Route 18. (0.01 mgal.).

Route 18_1 B.M. J. 1764—(4)—Shimonoseki—B.M. J. 1764.

Pref.	No.	B.M.	Date 1952	Time	$\sum\delta T$	SD	0.9150 × SD	h (cm)	0.3086 × h	$E.T.$	12.00× $\sum\delta T$ Drift	$\sum\delta g$	g 979.	Field Note No.
				h m	h m									
34	1939	J. 1764	VII 19	16 36	0 00	5297	4847	61	19	−6	0	0	67983	47
〃	1940	1766	〃	16 49	13	5349	4894	58	18	−6	2	44	68027	〃
〃	1941	1768	〃	17 04	28	5319	4867	43	13	−6	6	8	67991	〃
〃	1942	1770	〃	17 19	43	5623	5145	46	14	−6	8	285	68268	〃
〃	1943	1771	〃	17 30	54	5840	5344	119	37	−8	11	502	68485	〃
〃	1944	1772	〃	17 41	1 05	5841	5345	−28	− 9	−8	13	455	68438	〃
〃	1945	(3)	〃	18 07	1 31	6027	5515	87	27	−8	18	656	68639	〃
〃	1946	(4)	〃	19 22	2 46	5401	4942	0	0	−8	34	40	68023	〃
〃	Shimonoseki	〃	〃	20 05	3 29	6086	5569	27	8	−7	42	668	68651	〃
〃	〃	〃	VII 20	8 49		6138	5616	〃	〃	8				〃
〃	1947	Shimonoseki W.S.*	〃	9 43	4 23	5018	4591	19	6	13	53	− 365	67618	〃
〃	1939	J. 1764	〃	10 51	5 31	5414	4954	57	18	16	66	0	67983	〃

* Weather Station, on the Surface of the Stone Block at the Foot of the Wireless Antenna Tower.

Route 18_2 B.M. 1737—B.M. J. 1764—Yumoto—Prefecture Boundary (No. 1159).

Pref.	No.	B.M.	Date 1952	Time	$\sum\delta T$	SD	0.9150 × SD	h (cm)	0.3086 × h	$E.T.$	5.97× $\sum\delta T$ Drift	$\sum\delta g$	g 979.	Field Note No.
				h m	h m									
34	1924	1737	VII 19	9 47	0 00	4103	3754	55	17	15	0	0	66940	46
〃	1925	Yamaguchi Univ.*	〃	10 00	13	3663	3352	27	8	15	1	− 412	66528	〃
〃	〃	〃	〃	10 15		3655	3344	〃	〃	15				〃
〃	1926	1738	〃	11 11	1 09	4163	3809	72	22	16	7	62	67002	〃
〃	1927	1740	〃	11 29	1 27	4398	4024	52	16	16	9	269	67209	〃

* Yamaguchi University, Main Building, Entrance.

〃	1928	1742	〃	11 43	1 41	4036	3693	66	20	15	10	− 60	66880	〃
〃	1929	1744	〃	13 33	3 31	3963	3626	73	23	7	21	− 143	66797	〃
〃	1930	1746	〃	13 50	3 48	3451	3158	50	15	7	23	− 621	66319	〃
〃	1931	1748	〃	14 10	4 08	3153	2885	64	20	7	24	− 890	66050	〃
〃	1932	1750	〃	14 28	4 26	3662	3351	51	16	7	26	− 430	66510	〃
〃	1933	1752	〃	14 49	4 47	3496	3199	52	16	2	29	− 590	66350	47
〃	1934	1754	〃	15 06	5 04	4257	3895	54	17	2	30	106	67046	〃
〃	1935	1756	〃	15 22	5 20	4999	4574	59	18	2	32	784	67724	〃
〃	1936	1759	〃	15 47	5 45	4215	3857	59	18	−3	35	59	66999	〃
〃	1937	1761	〃	16 02	6 00	5185	4744	44	14	−3	36	941	67881	〃
〃	1938	1763	〃	16 19	6 17	5284	4835	56	17	−3	38	1033	67973	〃
〃	1939	J. 1764	〃	16 36	6 34	5297	4847	61	19	−6	39	1043	67983	〃
〃	〃	〃	VII 20	10 51		5414	4954	57	18	16				〃
〃	1948	3129	〃	11 05	6 48	4498	4116	41	13	16	41	198	67138	〃
〃	1949	3127	〃	11 18	7 01	6199	5672	54	17	16	42	1757	68697	〃
〃	1950	3125	〃	11 31	7 14	7100	6497	45	14	16	43	2578	69518	〃
〃	〃	〃	〃	11 36		3500	3203	〃	〃	16				〃
〃	1951	3123	〃	11 50	7 28	3523	3224	57	18	16	45	2601	69541	〃
〃	1952	3121	〃	12 06	7 44	3370	3084	56	17	16	46	2459	69399	〃
〃	1953	3119	〃	12 20	7 58	2376	2174	48	15	16	48	1545	68485	〃
〃	1954	3117	〃	12 51	8 29	2598	2377	58	18	14	51	1746	68686	〃
〃	1955	3115	〃	13 08	8 46	2279	2085	52	16	14	53	1450	68390	〃
〃	1956	3113	〃	13 24	9 02	0490	0448	48	15	14	54	− 189	66751	〃
〃	1957	3111	〃	15 35	11 13	4510	4127	55	17	−1	67	3464	70404	〃
〃	1958	3109	〃	15 49	11 27	5619	5141	82	25	−1	69	4484	71424	〃
〃	1959	3107	〃	16 10	11 48	5547	5076	56	17	−1	70	4410	71350	〃
〃	1960	3105	〃	16 23	12 01	4589	4199	48	15	−1	72	3529	70469	〃
〃	1961	3103	〃	16 39	12 17	3460	3166	58	18	−5	73	2494	69434	〃
〃	1962	3101	〃	16 54	12 32	1978	1810	85	26	−5	75	1144	68084	〃
〃	〃	〃	〃	16 57		4030	3687	85	26	−5				〃
〃	1963	3099	〃	17 14	12 49	0777	0711	54	17	−5	76	−1842	65098	〃
〃	1964	3097	〃	17 30	13 05	1581	1447	51	16	−8	78	−1112	65828	〃
〃	1965	3096	〃	17 41	13 16	1535	1405	55	17	−8	79	−1154	65786	〃
〃	1966	3094	〃	17 56	13 31	0240	0220	45	14	−8	81	−2344	64596	〃
〃	1967	3092	〃	18 12	13 47	3529	3229	60	19	−8	82	669	67609	〃

Table XIII. (Continued)

Pref.	No.	B.M.	Date 1952	Time	$\sum\delta T$	SD	0.9150 × SD	h (cm)	0.3086 × h	$E.T.$	5.97× $\sum\delta T$ Drift	$\sum\delta g$	g 979.	Field Note No.
				h m	h m									
34	1968	3090	VII 20	18 25	14 00	4420	4044	51	16	−8	84	1479	68419	47
〃	1969	3087	〃	18 55	14 30	5576	5102	68	21	−9	87	2538	69478	〃
〃	1970	3086	〃	19 07	14 42	5863	5365	72	22	−9	88	2801	69741	〃
〃	Yumoto		〃	20 42	16 17	6643	6078	27	8	−6	97	3494	70434	〃
〃	〃		VII 21	8 57		6725	6153	〃	〃	8				〃
〃	1970	3086	〃	10 34	17 54	5967	5460	72	22	16	107	2813	69753	〃
〃	1971	Hagi W.S.*	〃	10 45	18 05	5961	5454	64	20	16	108	2804	69744	〃
〃	1972	3085	〃	11 25	18 45	5645	5165	49	15	16	112	2506	69446	〃
〃	1973	3082	〃	11 46	19 06	1625	1487	69	21	16	114	−1168	65772	〃
〃	1974	3079	〃	12 08	19 28	2612	2390	50	15	16	116	− 273	66667	〃
〃	1975	3077	〃	12 22	19 42	2898	2652	51	16	16	118	− 12	66928	〃
〃	1976	3075	〃	12 36	19 56	0899	0823	41	13	16	119	−1845	65095	〃
〃	〃	〃	〃	12 39		3950	3614	〃	〃	16				〃
〃	1977	3073	〃	12 57	20 14	3000	2745	34	10	16	121	−2719	64221	〃
〃	1978	3071	〃	13 15	20 32	1957	1791	38	12	16	122	−3672	63268	〃
〃	1979	3069	〃	13 30	20 47	3244	2968	31	10	13	124	−2502	64438	〃
〃	1980	3067	〃	13 46	21 03	6956	6365	12	4	13	126	887	67827	〃
〃	〃	〃	〃	13 50		0754	0690	〃	〃	13				〃
〃	1981	3065	〃	14 05	21 18	0787	0720	46	14	13	127	926	67866	〃
〃	1982	3063	〃	14 20	21 33	4279	3915	41	13	13	129	4118	71058	〃
〃	1983	3061	〃	14 36	21 49	5422	4961	52	16	8	130	5161	72101	〃
〃	1159	P.B.**	〃	14 54	22 07	3979	3641	27	8	8	132	3831	70771	〃

* Weather Station Bench Mark. ** Prefecture Boundary.

Route 18$_3$ Yamaguchi—B.M. 1737—B.M. 1713—Tokuyama—Yamaguchi.

Pref.	No.	B.M.	Date 1952	Time	$\sum\delta T$	SD	0.9150 × SD	h (cm)	0.3086 × h	$E.T.$	8.33 × $\sum\delta T$ Drift	$\sum\delta g$	g 979.	Field Note No.
				h m	h m									
34	Yamaguchi		VII 22	8 57	0 00	3673	3361	27	8	4	0	0	66920	48
〃	1924	1737	〃	9 14	17	3687	3374	56	17	4	2	20	66940	〃
〃	1984	1735	〃	9 30	33	3280	3001	57	18	10	5	− 349	66571	〃
〃	1985	1733	〃	9 40	43	2568	2350	66	20	10	6	− 999	65921	〃
〃	1986	1731	〃	9 58	1 01	1173	1073	50	15	10	8	−2283	64637	〃
〃	1987	1730	〃	10 10	1 13	2717	2486	49	15	10	10	− 872	66048	〃
〃	1988	1728	〃	10 27	1 30	3537	3236	45	14	10	12	− 125	66795	〃
〃	1988.$_1$	Bôfu W.S.*	〃	10 54	1 57	3548	3246	27	8	14	17	− 122	66798	〃
〃	1989	1726	〃	11 27	2 30	3912	3579	67	21	14	21	220	67140	〃
〃	1990	1724	〃	11 45	2 48	4069	3723	61	19	16	23	362	67282	〃
〃	1991	1722	〃	12 02	3 05	3139	2872	49	15	16	26	− 496	66424	〃
〃	1992	1720	〃	12 22	3 25	4410	4035	48	15	16	28	665	67585	〃
〃	1993	1718	〃	12 36	3 39	4436	4059	56	17	15	31	687	67607	〃
〃	1994	1716	〃	12 51	3 54	3904	3572	50	15	15	32	197	67117	〃
〃	1995	1714	〃	14 49	5 52	3186	2915	57	18	8	49	− 481	66439	〃
〃	1996	1713	〃	14 58	6 01	3205	2933	64	20	8	50	− 462	66458	〃
〃	2026.$_2$	〃	VII 23	22 03		3426	3135	63	19	−5				〃 〃
〃	Tokuyama 2027	〃	〃	22 18	6 16	3494	3197	27	8	−5	52	− 413	66507	〃 〃
〃	2028		VII 24	9 35		3568	3265	〃	〃	1				〃 〃
〃	Yamaguchi 2029		〃	11 43	8 24	4030	3687	27	8	10	70	0	66920	〃

* Weather Station, on Concrete Corridor.

Route 18$_4$ B.M. 1713—Komatsu—Waki—B.M. 1713.

Pref.	No.	B.M.	Date 1952	Time	$\sum\delta T$	SD	0.9150 × SD	h (cm)	0.3086 × h	$E.T.$	11.08× $\sum\delta T$ Drift	$\sum\delta g$	g 979.	Field Note No.
				h m	h m									
34	1996	1713	VII 22	14 58	0 00	3205	2933	64	20	8	0	0	66458	48
〃	1997	3132	〃	15 14	16	3405	3116	61	19	8	3	179	66637	〃
〃	1998	3134	〃	15 34	36	2377	2175	72	22	2	7	− 769	65689	〃
〃	1999	3136	〃	15 53	55	2365	2164	55	17	2	10	− 788	65670	〃
〃	2000	3138	〃	16 11	1 13	2193	2007	60	19	2	13	− 946	65512	〃
〃	2001	3140	〃	16 27	1 29	1628	1490	68	21	2	17	−1465	64993	〃
〃	2002	3514	〃	17 13	2 15	1208	1105	61	19	−3	25	−1865	64593	〃
〃	〃	〃	〃	17 16		3775	3454	〃	〃	−3				〃
〃	2003	3511	〃	17 46	2 45	3860	3532	74	23	−7	31	−1793	64665	〃
〃	2004	3509	〃	18 05	3 04	3599	3293	72	22	−7	34	−2036	64422	〃
〃	2005	3507	〃	19 10	4 09	3340	3056	70	22	−9	47	−2288	64170	〃
〃	2006		〃	19 29	4 28	3300	3020	51	16	−9	50	−2333	64125	〃
〃	Komatsu 2006.$_1$		〃	20 17	5 16	2994	2740	27	8	−8	59	−2629	63829	〃
〃	〃		VII 23	12 26		4772	4366	〃	〃	14				〃
〃	2014	Waki	〃	15 24	8 14	6289	5754	27	8	10	91	−1277	65181	〃
〃	2015	1688	〃	15 34	8 24	6346	5807	47	15	5	93	−1224	65234	〃
〃	2016	1689	〃	15 48	8 38	6165	5641	59	18	5	95	−1389	65069	〃
〃	2017	1691	〃	16 06	8 56	6112	5592	59	18	5	99	−1442	65016	〃
〃	2018	1698	〃	18 03	10 53	3653	3342	64	20	−5	121	−3722	62736	〃
〃	2019	1700	〃	18 29	11 19	3920	3587	46	14	−5	125	−3487	62971	〃
〃	2020	1702	〃	18 44	11 34	4303	3937	50	15	−8	129	−3143	63315	〃
〃	2021	1703	〃	18 59	11 49	4140	3788	40	12	−8	131	−3297	63161	〃
〃	2022	1705	〃	19 50	12 40	3980	3642	69	21	−9	141	−3445	63013	〃
〃	2023	1707	〃	20 15	13 05	5051	4622	52	16	−9	145	−2474	63984	〃
〃	2024	1709	〃	20 34	13 24	5940	5435	−45	−14	−7	148	−1692	64766	〃
〃	2025	1711	〃	21 12	14 02	6930	6341	48	15	−7	155	− 764	65694	〃
〃	2026.$_1$		〃	21 49	14 39	7392	6764	−	−	−5	163	− 362	66096	〃
〃	〃		〃	21 53		3050	2791	−	−	−5				〃
〃	2026.$_2$	1713	〃	22 03	14 49	3426	3135	63	19	−5	164	0	66458	〃

Route 18_5 Komatsu—B.M. 3504—B.M. 3487—Komatsu.

Pref.	No.	B.M.	Date 1952	Time	$\sum\delta T$	SD	0.9150 × SD	h (cm)	0.3086 × h	$E.T.$	10.22× $\sum\delta T$ Drift	$\sum\delta g$	g 979.	Field Note No.
				h m	h m									
34	Komatsu 2006.$_1$		VII 23	7 45	0 00	3064	2804	27	8	−5	0	0	63829	48
〃	2007	3504	〃	7 58	13	3064	2804	69	21	−5	2	11	63840	〃
〃	2008	3502	〃	8 13	28	3291	3011	58	18	−5	5	212	64041	〃
〃	2009	3499	〃	8 38	53	2962	2710	92	28	0	9	− 78	63751	〃
〃	2010	3496	〃	9 03	1 18	2089	1911	67	21	0	13	− 888	62941	〃
〃	2011.$_1$	3494	〃	9 17	1 32	1410	1290	67	21	0	15	−1511	62318	〃
〃	2011.$_2$	〃	〃	9 20		3086	2824	〃	〃	0				〃
〃	2012	3491	〃	9 50	2 02	2954	2703	57	18	5	20	−1635	62194	〃
〃	2013	3487	〃	10 28	2 40	1715	1569	40	12	5	28	−2783	61046	〃
〃	Komatsu 2006.$_1$		〃	12 26	4 38	4772	4366	27	8	14	47	0	63829	〃

(30) Tottori Prefecture.

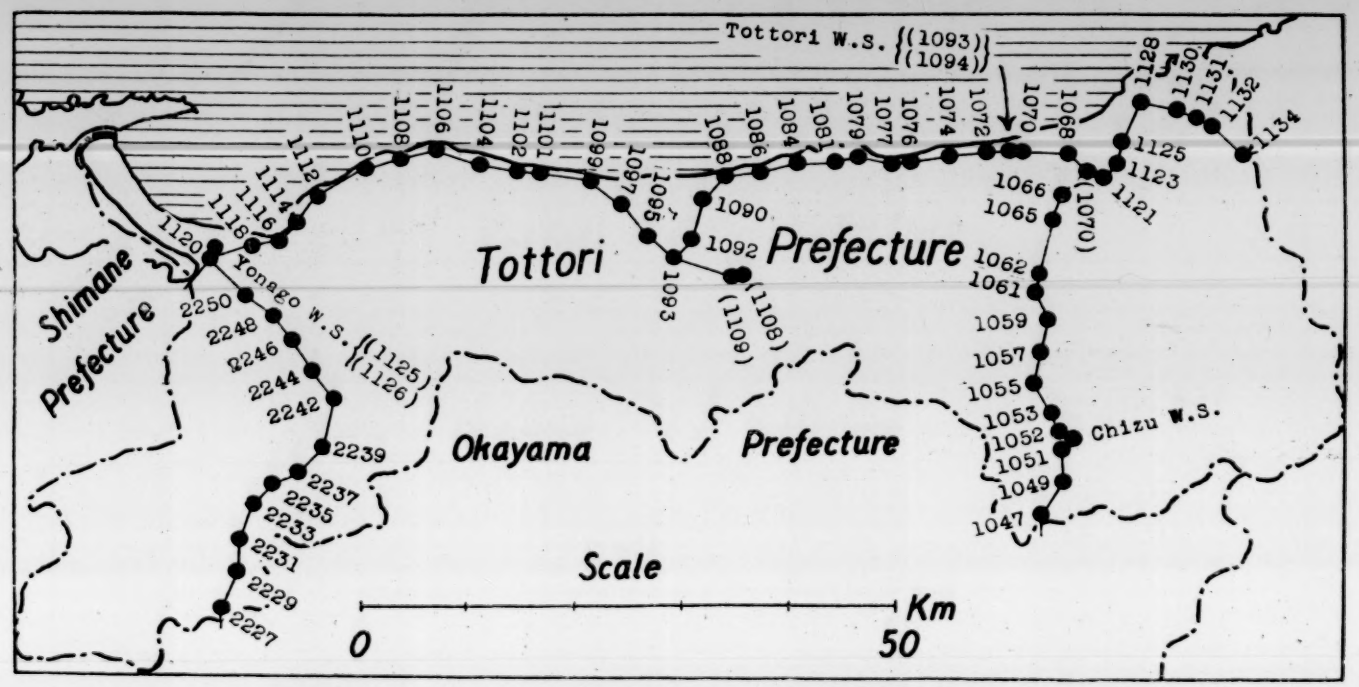

Fig. 7. Gravity Stations in Tottori Prefecture.

Table XIV. Synoptic Results for Tottori Prefecture (I).

B.M.	No.	φ	λ	H (m)	Date 1951	g 979.	g_0 979.	g_0'' 979.	HELMERT Formula of 1901 γ_0 979.	HELMERT Formula of 1901 Δg_0 (mgal.)	HELMERT Formula of 1901 $\Delta g_0''$ (mgal.)	International Formula γ_0 979.	International Formula Δg_0 (mgal.)	International Formula $\Delta g_0''$ (mgal.)
		35° ′	133°′											
2227	1138	06.4	21.2	463.04	XII 14	66511	8080	7562	7390	69.0	17.2	7546	53.4	1.6
2229	1137	08.1	23.1	558.29	〃	65079	8231	7606	7414	81.7	19.2	7570	66.1	3.6
2231	1136	10.2	23.5	466.29	〃	67321	8171	7649	7444	72.7	20.5	7600	57.1	4.9
2233	1135	12.2	23.3	237.21	〃	72332	7965	7700	7472	49.3	22.8	7628	33.7	7.2
〃	〃	〃	〃	〃	〃	72340	7966	7700	〃	49.4	22.8	〃	33.8	7.2

	2235	1134	13.2	24.8	208.89	〃	73224	7967	7733	7486	48.1	24.7	7642	32.5	9.1
	2237	1133	14.0	26.6	195.74	〃	73656	7970	7751	7498	47.2	25.3	7654	31.6	9.7
	2239	1132	15.5	28.2	168.66	〃	74202	7941	7752	7519	42.2	23.3	7675	26.6	7.7
	2242	1131	17.7	28.5	129.48	〃	75468	7946	7802	7550	39.6	25.2	7706	24.0	9.6
	2244	1130	19.1	27.2	95.25	〃	76556	7950	7843	7570	38.0	27.3	7726	22.4	11.7
	2246	1129	20.9	26.0	66.75	〃	77893	7995	7921	7596	39.9	32.5	7751	24.4	17.0
	〃	〃	〃	〃	〃	〃	77897	7996	7921	〃	40.0	32.5	〃	24.5	17.0
	2248	1128	22.7	24.7	42.20	〃	79294	8060	8012	7621	43.9	39.1	7777	28.3	23.5
	2250	1127	23.8	22.5	18.35	〃	80212	8078	8057	7637	44.1	42.0	7792	28.6	26.5
Yonago	W.S.*	1126	26.0	21.0	6.54	XII 13	80375	8058	8050	7668	39.0	38.2	7824	23.4	22.6
	〃 **	1125	〃	〃	7.17	〃	80353	8057	8049	〃	38.9	38.1	〃	23.3	22.5
J.	1120	1123	25.7	20.6	4.08	〃	80548	8067	8063	7664	40.3	39.9	7819	24.8	24.4
	1118	1122	26.1	22.9	4.63	〃	80482	8063	8057	7670	39.3	38.7	7825	23.8	23.2
	1116	1121	26.9	25.0	4.51	〃	80494	8063	8058	7681	38.2	37.7	7836	22.7	22.2
	1114	1120	28.6	26.5	15.50	〃	79975	8045	8028	7705	34.0	32.3	7861	18.4	16.7
	1112	1119	29.8	28.5	4.59	〃	80085	8023	8018	7722	30.1	29.6	7878	14.5	14.0
	1110	1118	30.7	30.8	4.86	〃	80110	8026	8021	7735	29.1	28.6	7890	13.6	13.1
	1108	1117	30.9	32.9	37.02	〃	79298	8044	8003	7738	30.6	26.5	7893	15.1	11.0
	1106	1116	31.3	35.5	32.08	〃	79293	8028	7992	7744	28.4	24.8	7899	12.9	9.3
	1104	1115	30.9	38.2	11.56	〃	79638	8000	7987	7738	26.2	24.9	7893	10.7	9.4
	1102	1114	30.2	40.3	4.77	〃	79759	7991	7985	7728	26.3	25.7	7883	10.8	10.2
	1101	1113	30.2	41.6	6.05	〃	79669	7986	7979	7728	25.8	25.1	7883	10.3	9.6
	1099	1112	29.7	44.2	5.32	〃	80241	8041	8035	7721	32.0	31.4	7876	16.5	15.9
	1097	1111	28.5	46.7	2.86	〃	80696	8078	8075	7704	37.4	37.1	7859	21.9	21.6
	1095	1110	26.9	48.3	18.98	〃	79721	8031	8010	7681	35.0	32.9	7836	19.5	17.4
	1093	1107	25.7	49.2	16.22	〃	79365	7987	7968	7664	32.3	30.4	7819	16.8	14.9
	〃	〃	〃	〃	〃	XII 12	79371	7987	7969	〃	32.3	30.5	〃	16.8	15.0
	1092	1106	26.3	50.6	18.78	〃	79195	7978	7957	7673	30.5	28.4	7828	15.0	12.9
	1090	1105	28.5	51.4	6.20	〃	79933	8012	8006	7704	30.8	30.2	7859	15.3	14.7
	1088	1104	30.1	52.2	3.00	〃	79939	8003	8000	7727	27.6	27.3	7882	12.1	11.8
	1086	1103	30.2	55.0	10.91	〃	80055	8039	8027	7728	31.1	29.9	7883	15.6	14.4
	1084	1102	30.6	56.9	20.22	〃	79993	8062	8039	7734	32.8	30.5	7889	17.3	15.0
	1081	1101	30.7	59.5	2.51	〃	80767	8084	8082	7735	34.9	34.7	7890	19.4	19.2
				134°											
	1079	1100	31.0	01.2	24.11	〃	80268	8101	8074	7740	36.1	33.4	7895	20.6	17.9
	1077	1099	30.4	03.4	2.50	〃	80699	8078	8075	7731	34.7	34.4	7886	19.2	18.9

* Weather Station Bench Mark.
** Weather Station Seismometer Room, on the Surface of the Concrete Block for Seismometer Installation.

Route 18_4 B.M. 1713—Komatsu—Waki—B.M. 1713.

Pref.	No.	B.M.	Date 1952	Time	$\sum\delta T$	SD	0.9150 × SD	h (cm)	0.3086 × h	$E.T.$	11.08× $\sum\delta T$ Drift	$\sum\delta g$	g 979.	Field Note No.
				h m	h m									
34	1996	1713	VII 22	14 58	0 00	3205	2933	64	20	8	0	0	66458	48
〃	1997	3132	〃	15 14	16	3405	3116	61	19	8	3	179	66637	〃
〃	1998	3134	〃	15 34	36	2377	2175	72	22	2	7	− 769	65689	〃
〃	1999	3136	〃	15 53	55	2365	2164	55	17	2	10	− 788	65670	〃
〃	2000	3138	〃	16 11	1 13	2193	2007	60	19	2	13	− 946	65512	〃
〃	2001	3140	〃	16 27	1 29	1628	1490	68	21	2	17	−1465	64993	〃
〃	2002	3514	〃	17 13	2 15	1208	1105	61	19	−3	25	−1865	64593	〃
〃	〃	〃	〃	17 16		3775	3454	〃	〃	−3				〃
〃	2003	3511	〃	17 46	2 45	3860	3532	74	23	−7	31	−1793	64665	〃
〃	2004	3509	〃	18 05	3 04	3599	3293	72	22	−7	34	−2036	64422	〃
〃	2005	3507	〃	19 10	4 09	3340	3056	70	22	−9	47	−2288	64170	〃
〃	2006		〃	19 29	4 28	3300	3020	51	16	−9	50	−2333	64125	〃
〃	Komatsu 2006.$_1$		〃	20 17	5 16	2994	2740	27	8	−8	59	−2629	63829	〃
〃	〃		VII 23	12 26		4772	4366	〃	〃	14				〃
〃	2014	Waki	〃	15 24	8 14	6289	5754	27	8	10	91	−1277	65181	〃
〃	2015	1688	〃	15 34	8 24	6346	5807	47	15	5	93	−1224	65234	〃
〃	2016	1689	〃	15 48	8 38	6165	5641	59	18	5	95	−1389	65069	〃
〃	2017	1691	〃	16 06	8 56	6112	5592	59	18	5	99	−1442	65016	〃
〃	2018	1698	〃	18 03	10 53	3653	3342	64	20	−5	121	−3722	62736	〃
〃	2019	1700	〃	18 29	11 19	3920	3587	46	14	−5	125	−3487	62971	〃
〃	2020	1702	〃	18 44	11 34	4303	3937	50	15	−8	129	−3143	63315	〃
〃	2021	1703	〃	18 59	11 49	4140	3788	40	12	−8	131	−3297	63161	〃
〃	2022	1705	〃	19 50	12 40	3980	3642	69	21	−9	141	−3445	63013	〃
〃	2023	1707	〃	20 15	13 05	5051	4622	52	16	−9	145	−2474	63984	〃
〃	2024	1709	〃	20 34	13 24	5940	5435	−45	−14	−7	148	−1692	64766	〃
〃	2025	1711	〃	21 12	14 02	6930	6341	48	15	−7	155	− 764	65694	〃
〃	2026.$_1$		〃	21 49	14 39	7392	6764	−	−	−5	163	− 362	66096	〃
〃	〃		〃	21 53		3050	2791	−	−	−5				〃
〃	2026.$_2$	1713	〃	22 03	14 49	3426	3135	63	19	−5	164	0	66458	〃

Route 18_5 Komatsu—B.M. 3504—B.M. 3487—Komatsu.

Pref.	No.	B.M.	Date 1952	Time	$\sum\delta T$	SD	0.9150 × SD	h (cm)	0.3086 × h	$E.T.$	10.22× $\sum\delta T$ Drift	$\sum\delta g$	g 979.	Field Note No.
				h m	h m									
34	Komatsu 2006.$_1$		VII 23	7 45	0 00	3064	2804	27	8	−5	0	0	63829	48
〃	2007	3504	〃	7 58	13	3064	2804	69	21	−5	2	11	63840	〃
〃	2008	3502	〃	8 13	28	3291	3011	58	18	−5	5	212	64041	〃
〃	2009	3499	〃	8 38	53	2962	2710	92	28	0	9	− 78	63751	〃
〃	2010	3496	〃	9 03	1 18	2089	1911	67	21	0	13	− 888	62941	〃
〃	2011.$_1$	3494	〃	9 17	1 32	1410	1290	67	21	0	15	−1511	62318	〃
〃	2011.$_2$	〃	〃	9 20		3086	2824	〃	〃	0				〃
〃	2012	3491	〃	9 50	2 02	2954	2703	57	18	5	20	−1635	62194	〃
〃	2013	3487	〃	10 28	2 40	1715	1569	40	12	5	28	−2783	61046	〃
〃	Komatsu 2006.$_1$		〃	12 26	4 38	4772	4366	27	8	14	47	0	63829	〃

(30) Tottori Prefecture.

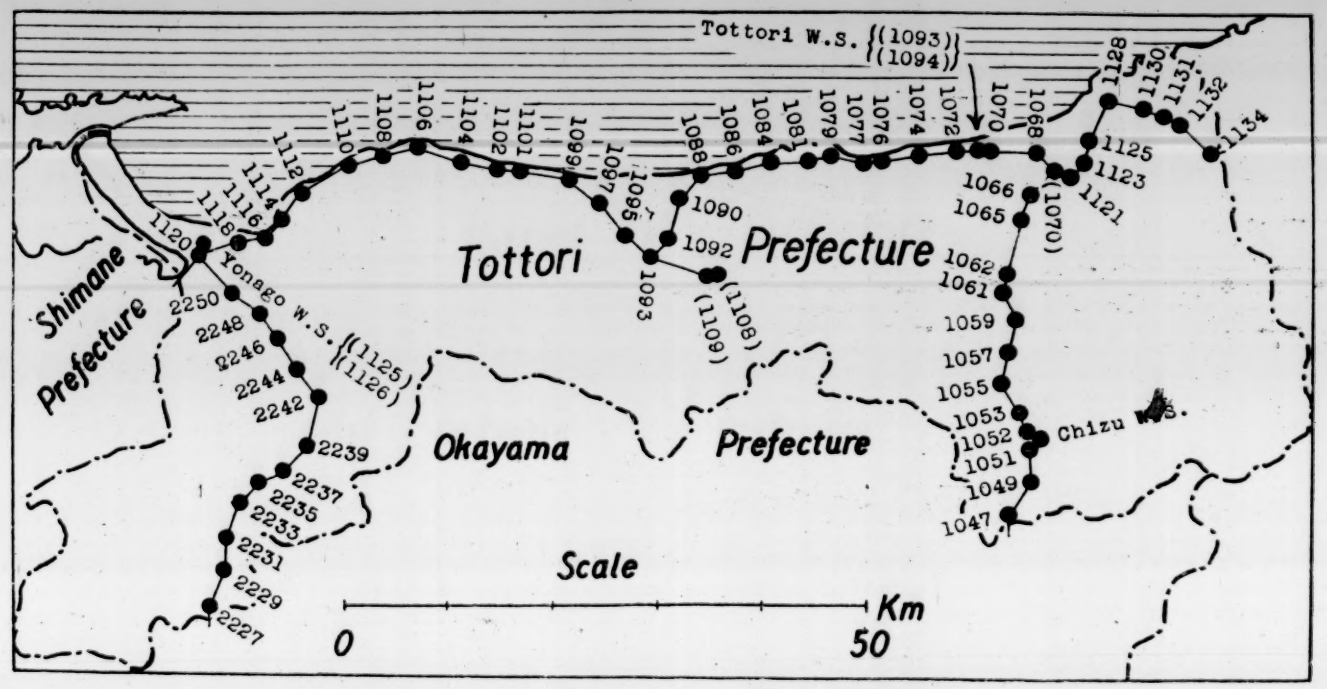

Fig. 7. Gravity Stations in Tottori Prefecture.

Table XIV. Synoptic Results for Tottori Prefecture (I).

B.M.	No.	φ	λ	H	Date	g	g_0	g_0''	HELMERT Formula of 1901			International Formula		
				(m)	1951	979.	979.	979.	γ_0 979.	Δg_0 (mgal.)	$\Delta g_0''$ (mgal.)	γ_0 979.	Δg_0 (mgal.)	$\Delta g_0''$ (mgal.)
		35° ′	133°′											
~ 2227	1138	06.4	21.2	463.04	XII 14	66511	8080	7562	7390	69.0	17.2	7546	53.4	1.6
2229	1137	08.1	23.1	558.29	〃	65079	8231	7606	7414	81.7	19.2	7570	66.1	3.6
2231	1136	10.2	23.5	466.29	〃	67321	8171	7649	7444	72.7	20.5	7600	57.1	4.9
2233	1135	12.2	23.3	237.21	〃	72332	7965	7700	7472	49.3	22.8	7628	33.7	7.2
〃	〃	〃	〃	〃	〃	72340	7966	7700	〃	49.4	22.8	〃	33.8	7.2

	2235	1134	13.2	24.8	208.89	〃	73224	7967	7733	7486	48.1	24.7	7642	32.5	9.1
	2237	1133	14.0	26.6	195.74	〃	73656	7970	7751	7498	47.2	25.3	7654	31.6	9.7
	2239	1132	15.5	28.2	168.66	〃	74202	7941	7752	7519	42.2	23.3	7675	26.6	7.7
	2242	1131	17.7	28.5	129.48	〃	75468	7946	7802	7550	39.6	25.2	7706	24.0	9.6
	2244	1130	19.1	27.2	95.25	〃	76556	7950	7843	7570	38.0	27.3	7726	22.4	11.7
	2246	1129	20.9	26.0	66.75	〃	77893	7995	7921	7596	39.9	32.5	7751	24.4	17.0
	〃	〃	〃	〃	〃	〃	77897	7996	7921	〃	40.0	32.5	〃	24.5	17.0
	2248	1128	22.7	24.7	42.20	〃	79294	8060	8012	7621	43.9	39.1	7777	28.3	23.5
	2250	1127	23.8	22.5	18.35	〃	80212	8078	8057	7637	44.1	42.0	7792	28.6	26.5
Yonago	W.S.*	1126	26.0	21.0	6.54	XII 13	80375	8058	8050	7668	39.0	38.2	7824	23.4	22.6
	〃 **	1125	〃	〃	7.17	〃	80353	8057	8049	〃	38.9	38.1	〃	23.3	22.5
J.	1120	1123	25.7	20.6	4.08	〃	80548	8067	8063	7664	40.3	39.9	7819	24.8	24.4
	1118	1122	26.1	22.9	4.63	〃	80482	8063	8057	7670	39.3	38.7	7825	23.8	23.2
	1116	1121	26.9	25.0	4.51	〃	80494	8063	8058	7681	38.2	37.7	7836	22.7	22.2
	1114	1120	28.6	26.5	15.50	〃	79975	8045	8028	7705	34.0	32.3	7861	18.4	16.7
	1112	1119	29.8	28.5	4.59	〃	80085	8023	8018	7722	30.1	29.6	7878	14.5	14.0
	1110	1118	30.7	30.8	4.86	〃	80110	8026	8021	7735	29.1	28.6	7890	13.6	13.1
	1108	1117	30.9	32.9	37.02	〃	79298	8044	8003	7738	30.6	26.5	7893	15.1	11.0
	1106	1116	31.3	35.5	32.08	〃	79293	8028	7992	7744	28.4	24.8	7899	12.9	9.3
	1104	1115	30.9	38.2	11.56	〃	79638	8000	7987	7738	26.2	24.9	7893	10.7	9.4
	1102	1114	30.2	40.3	4.77	〃	79759	7991	7985	7728	26.3	25.7	7883	10.8	10.2
	1101	1113	30.2	41.6	6.05	〃	79669	7986	7979	7728	25.8	25.1	7883	10.3	9.6
	1099	1112	29.7	44.2	5.32	〃	80241	8041	8035	7721	32.0	31.4	7876	16.5	15.9
	1097	1111	28.5	46.7	2.86	〃	80696	8078	8075	7704	37.4	37.1	7859	21.9	21.6
	1095	1110	26.9	48.3	18.98	〃	79721	8031	8010	7681	35.0	32.9	7836	19.5	17.4
	1093	1107	25.7	49.2	16.22	〃	79365	7987	7968	7664	32.3	30.4	7819	16.8	14.9
	〃	〃	〃	〃	〃	XII 12	79371	7987	7969	〃	32.3	30.5	〃	16.8	15.0
	1092	1106	26.3	50.6	18.78	〃	79195	7978	7957	7673	30.5	28.4	7828	15.0	12.9
	1090	1105	28.5	51.4	6.20	〃	79933	8012	8006	7704	30.8	30.2	7859	15.3	14.7
	1088	1104	30.1	52.2	3.00	〃	79939	8003	8000	7727	27.6	27.3	7882	12.1	11.8
	1086	1103	30.2	55.0	10.91	〃	80055	8039	8027	7728	31.1	29.9	7883	15.6	14.4
	1084	1102	30.6	56.9	20.22	〃	79993	8062	8039	7734	32.8	30.5	7889	17.3	15.0
	1081	1101	30.7	59.5	2.51	〃	80767	8084	8082	7735	34.9	34.7	7890	19.4	19.2
				134°											
	1079	1100	31.0	01.2	24.11	〃	80268	8101	8074	7740	36.1	33.4	7895	20.6	17.9
	1077	1099	30.4	03.4	2.50	〃	80699	8078	8075	7731	34.7	34.4	7886	19.2	18.9

* Weather Station Bench Mark.

** Weather Station Seismometer Room, on the Surface of the Concrete Block for Seismometer Installation.

Table XIV. (I) (Continued)

	B.M.	No.	φ	λ	H	Date	g	g_0	g_0''	Helmert Formula of 1901			International Formula		
					(m)	1951	979.	979.	979.	γ_0 979.	Δg_0 (mgal.)	$\Delta g_0''$ (mgal.)	γ_0 979.	Δg_0 (mgal.)	$\Delta g_0''$ (mgal.)
			35°,	134°,											
	1076	1098	30.8	04.2	3.60	XII 12	80747	8086	8082	7737	34.9	34.5	7892	19.4	19.0
	1074	1097	31.0	06.2	8.50	〃	80477	8074	8064	7740	33.4	32.4	7895	17.9	16.9
	1072	1096	31.4	08.4	5.34	〃	80517	8068	8062	7745	32.3	31.7	7900	16.8	16.2
Tottori	W.S.*	1093	30.4	10.5	17.22	〃	80389	8092	8073	7731	36.1	34.2	7886	20.6	18.7
	〃 **	1094	〃	〃	〃	〃	80393	8092	8073	〃	36.1	34.2	〃	20.6	18.7
	1070	1095	30.9	11.0	6.39	〃	80663	8086	8079	7738	34.8	34.1	7893	19.3	18.6
	1068	1092	30.3	13.4	4.42	〃	80420	8056	8051	7730	32.6	32.1	7885	17.1	16.6
	1121	1071	29.4	14.9	8.53	XII 11	80261	8052	8043	7717	33.5	32.6	7872	18.0	17.1
	1123	1072	30.3	16.7	50.26	〃	79576	8113	8057	7730	38.3	32.7	7885	22.8	17.2
	1125	1073	31.9	17.4	5.72	〃	80631	8081	8074	7752	32.9	32.2	7907	17.4	16.7
	1128	1074	33.8	18.8	1.89	〃	81271	8133	8131	7779	35.4	35.2	7934	19.9	19.7
	1130	1075	33.5	20.8	10.40	〃	81334	8166	8154	7775	39.1	37.9	7930	23.6	22.4
	1131	1076	33.1	22.0	22.24	〃	80996	8168	8143	7769	39.9	37.4	7925	24.3	21.8
	1132	1077	32.6	23.0	55.18	〃	80078	8178	8116	7762	41.6	35.4	7917	26.1	19.9
	1134	1078	31.4	24.5	145.22	〃	77618	8210	8047	7745	46.5	30.2	7900	31.0	14.7

* Weather Station, Entrance.

** Weather Station Seismometer Room, on the Surface of the Concrete Block for Seismometer Installation.

Synoptic Results for Tottori Prefecture (II).

B.M.	No.	φ	λ	H	Date	g	g_0	g_0''	Helmert Formula of 1901			International Formula		
				(m)	1951	979.	979.	979.	γ_0 979.	Δg_0 (mgal.)	$\Delta g_0''$ (mgal.)	γ_0 979.	Δg_0 (mgal.)	$\Delta g_0''$ (mgal.)
		35° ,	134° ,											
1066	1079	29.0	13.5	6.40	XII 11	80156	8035	8028	7711	32.4	31.7	7866	16.9	16.2
1065	1080	27.4	13.1	9.11	〃	79556	7984	7974	7688	29.6	28.6	7844	14.0	13.0
1062	1081	24.7	12.2	22.08	〃	78851	7953	7929	7650	30.3	27.9	7805	14.8	12.4
1061	1082	23.7	12.4	28.56	〃	78680	7956	7924	7636	32.0	28.8	7791	16.5	13.3
1059	1083	22.1	13.1	45.30	〃	77951	7935	7884	7613	32.2	27.1	7768	16.7	11.6
1057	1084	20.3	12.5	73.29	〃	76491	7875	7793	7587	28.8	20.6	7743	13.2	5.0
1055	1085	18.4	12.0	107.05	〃	75122	7843	7723	7560	28.3	16.3	7716	12.7	0.7
1053	1086	17.3	13.6	145.85	〃	74039	7854	7691	7545	30.9	14.6	7700	15.4	−0.9
〃	〃	〃	〃	〃	〃	74021	7852	7689	〃	30.7	14.4	〃	15.2	−1.1
1052	1087	16.4	13.7	163.87	〃	73665	7872	7689	7532	34.0	15.7	7688	18.4	0.1
1051	1088	15.5	13.8	181.93	XII 12	72996	7861	7657	7519	34.2	13.8	7675	18.6	−1.8
〃	〃	〃	〃	〃	〃	73013	7863	7659	〃	34.4	14.0	〃	18.8	−1.6
1049	1089	13.5	13.8	241.45	〃	71246	7870	7600	7491	37.9	10.9	7647	22.3	−4.7
1047	1090	12.1	12.4	362.33	〃	68781	7996	7591	7471	52.5	12.0	7627	36.9	−3.6
〃	〃	〃	〃	〃	〃	68791	7997	7592	〃	52.6	12.1	〃	37.0	−3.5

(31) Shimane Prefecture.

Table XV. Synoptic Results for Shimane Prefecture (I).

B.M.	No.	φ	λ	H	Date	g	g_0	g_0''	Helmert Formula of 1901			International Formula		
				(m)	1951	979.	979.	979.	γ_0 979.	Δg_0 (mgal.)	$\Delta g_0''$ (mgal.)	γ_0 979.	Δg_0 (mgal.)	$\Delta g_0''$ (mgal.)
		34° ′	131° ′											
3059	1158	35.8	43.4	97.17	XII 18	70861	7386	7277	6958	42.8	31.9	7115	27.1	16.2
3057	1157	36.5	45.6	108.82	〃	70547	7391	7269	6968	42.3	30.1	7125	26.6	14.4
3055	1156	38.2	46.6	36.15	〃	71982	7310	7269	6992	31.8	27.7	7149	16.1	12.0
3053	1155	39.6	47.5	13.22	〃	72207	7262	7247	7011	25.1	23.6	7168	9.4	7.9
3051	1154	40.5	50.6	7.85	〃	72591	7283	7275	7024	25.9	25.1	7181	10.2	9.4
3049	1153	40.4	51.8	9.29	〃	72165	7245	7235	7023	22.2	21.2	7180	6.5	5.5
3047	1152	42.1	52.0	20.62	〃	72475	7311	7288	7047	26.4	24.1	7203	10.8	8.5
3046	1151	43.0	51.9	17.62	〃	72907	7345	7325	7059	28.6	26.6	7216	12.9	10.9
3044	1150	44.8	52.7	29.04	〃	73582	7448	7415	7085	36.3	33.0	7241	20.7	17.4
3042	1149	45.2	55.1	64.05	〃	72675	7465	7394	7090	37.5	30.4	7247	21.8	14.7
3040	1148	46.2	56.9	37.97	〃	73866	7504	7461	7104	40.0	35.7	7261	24.3	20.0
3037	1147	48.4	58.6	49.14	〃	74310	7583	7528	7135	44.8	39.3	7292	29.1	23.6
3035	1146	49.8	59.7	43.04	〃	74568	7590	7541	7155	43.5	38.6	7312	27.8	22.9
			132°											
3033	1145	51.2	01.2	5.87	〃	75824	7601	7594	7175	42.6	41.9	7332	26.9	26.2
303	1144	52.1	03.1	2.08	〃	75983	7605	7602	7188	41.7	41.4	7344	26.1	25.8
3029	1143	53.3	04.9	4.67	〃	76045	7619	7614	7205	41.4	40.9	7361	25.8	25.3
6*	1160	54.4	04.8	5.63	〃	76192	7637	7630	7220	41.7	41.0	7377	26.0	25.3
J. 3028	1161	53.8	05.7	7.12	XII 19	75868	7609	7601	7212	39.7	38.9	7368	24.1	23.3
3026	1174	55.1	06.6	21.19	〃	75935	7659	7635	7230	42.9	40.5	7387	27.2	24.8
3023	1175	55.1	09.3	27.89	〃	75485	7635	7603	7230	40.5	37.3	7387	24.8	21.6
3021	1176	56.5	10.8	48.43	〃	75633	7713	7659	7250	46.3	40.9	7406	30.7	25.3
3019	1177	58.3	10.5	2.92	〃	76969	7706	7703	7275	43·1	42.8	7432	27.4	27.1
3017	1178	59.8	12.0	5.39	〃	77641	7781	7775	7297	48.4	47.8	7453	32.8	32.2
		35°												
3014	1179	01.4	14.3	7.17	〃	78586	7881	7873	7319	56.2	55.4	7475	40.6	39.8
3012	1180	02.0	16.1	6.34	〃	79115	7931	7924	7328	60.3	59.6	7484	44.7	44.0

* Hamada Tide Gauge Station Bench Mark.

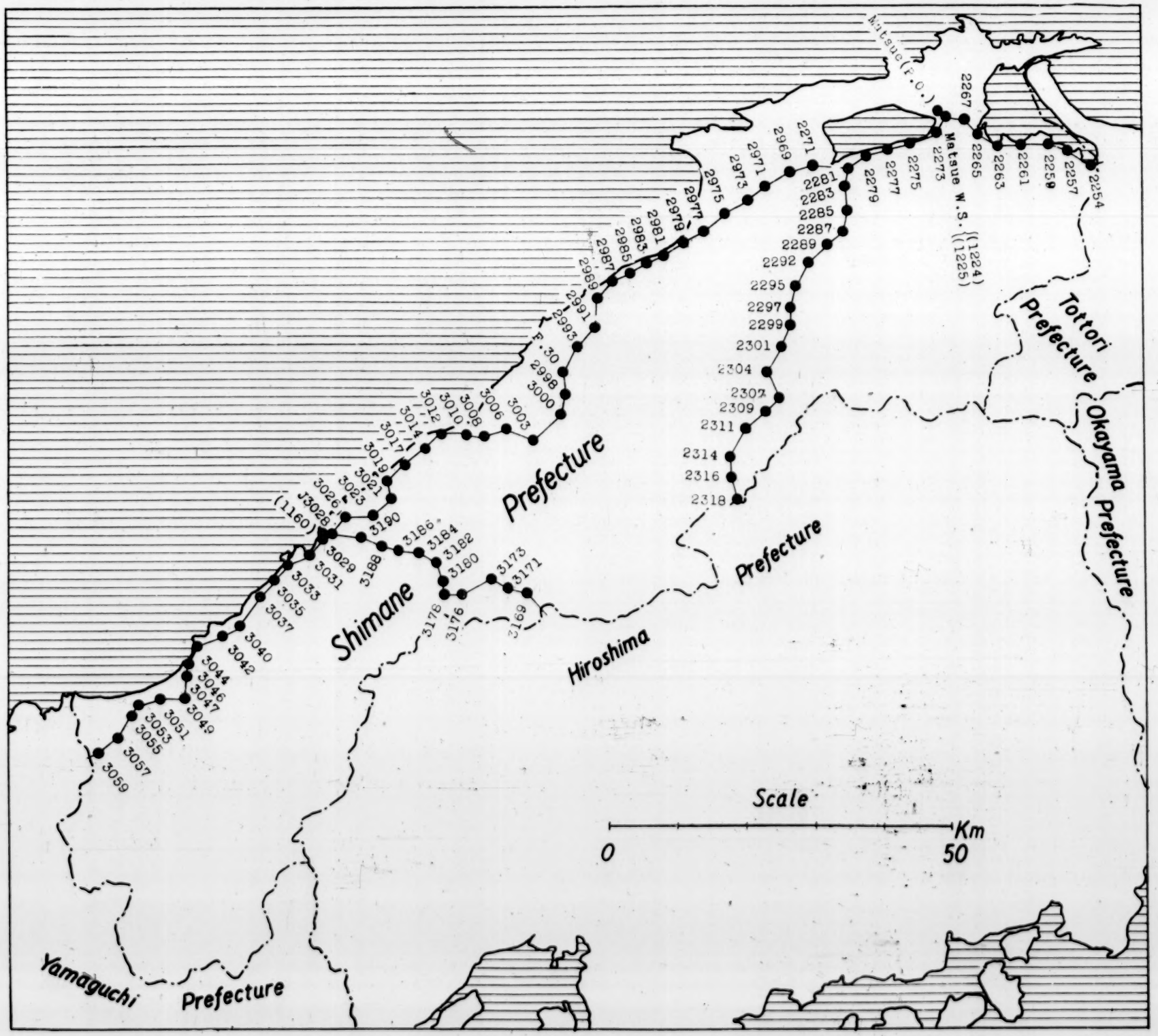

Fig. 8. Gravity Stations in Shimane Prefecture.

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	3010	1181	01.9	18.5	18.32	〃	77807	7837	7817	7326	51.1	49.1	7482	35.5	33.5
	3008	1182	02.2	20.2	84·51	XII 20	75912	7852	7757	7331	52.1	42.6	7487	36.5	27.0
	3006	1183	02.7	22.7	180.77	〃	73979	7956	7754	7338	61.8	41.6	7494	46.2	26.0
	3003	1184	01.9	25.0	243.86	〃	72704	8023	7750	7326	69.7	42.4	7482	54.1	26.8
	3000	1185	03.4	27.1	240.94	〃	73135	8057	7787	7348	70.9	43.9	7504	55.3	28.3
	2998	1186	05.1	27.6	187.52	〃	74020	7981	7771	7372	60.9	39.9	7528	45.3	24.3
	F. 30	1187	07.1	27.0	110.18	〃	75557	7896	7772	7400	49.6	37.2	7556	34.0	21.6
	2993	1188	09.2	28.8	22.08	〃	77238	7792	7767	7430	36.2	33.7	7586	20.6	18.1
	2991	1189	10.8	30.4	32.11	〃	78038	7903	7867	7452	45.1	41.5	7608	29.5	25.9
	2989	1190	12.8	30.3	7.63	〃	77788	7802	7794	7481	32.1	31.3	7637	16.5	15.7
	2987	1191	14.4	31.9	5.03	〃	78102	7826	7820	7504	32.2	31.6	7659	16.7	16.1
	2985	1192	15.0	33.8	110.30	〃	76226	7963	7840	7512	45.1	32.8	7668	29.5	17.2
	2983	1193	15.8	35.2	10.37	〃	78647	7897	7885	7523	37.4	36.2	7679	21.8	20.6
	2981	1194	16.5	36.8	34.35	〃	78369	7943	7905	7533	41.0	37.2	7689	25.4	21.6
	2979	1195	17.4	38.9	8.72	〃	78480	7875	7865	7546	32.9	31.9	7702	17.3	16.3
	2977	1196	18.5	40.9	12.90	〃	78476	7887	7873	7562	32.5	31.1	7717	17.0	15.6
	2975	1197	19.6	42.8	5.15	〃	79061	7922	7916	7577	34.5	33.9	7733	18.9	18.3
	2973	1198	20.9	44.7	8.57	〃	79357	7962	7953	7596	36.6	35.7	7751	21.1	20.2
	2971	1199	22.0	46.9	10.78	〃	79800	8013	8001	7611	40.2	39.0	7767	24.6	23.4
	2969	1200	23.2	49.1	6.94	XII 21	80339	8055	8048	7629	42.6	41.9	7784	27.1	26.4
	2271	1201	23.8	51.6	3.11	〃	80779	8088	8084	7637	45.1	44.7	7792	29.6	29.2
	2281	1202	23.6	54.5	7.55	〃	81008	8124	8116	7634	49.0	48.2	7790	33.4	32.6
	2279	1220	24.7	56.0	3.43	XII 22	80772	8088	8084	7650	43.8	43.4	7805	28.3	27.9
	2277	1221	25.2	58.4	2.58	〃	80634	8071	8069	7657	41.4	41.2	7812	25.9	25.7
	2275	1222	25.7	133° 00.8	2.90	〃	80490	8058	8055	7664	39.4	39.1	7819	23.9	23.6
	〃	〃	〃	〃	〃	〃	80502	8059	8056	〃	39.5	39.2	〃	24.0	23.7
	2273	1223	26.4	03.0	2.80	〃	80444	8053	8050	7674	37.9	37.6	7829	22.4	22.1
Matsue	W.S.*	1224	27.2	04.1	18.00	〃	79989	8054	8034	7685	36.9	34.9	7841	21.3	19.3
	〃 **	1225	〃	〃	17.05	〃	79990	8052	8033	〃	36.7	34.8	〃	21.1	19.2
	2267	1231	27.3	05.5	2.36	〃	80107	8018	8015	7687	33.1	32.8	7842	17.6	17.3

* Weather Station Seismometer Room, on the Surface of the Concrete Block for Seismometer Installation.

** Weather Station Bench Mark.

Table XV. (I) (Continued)

B.M.	No.	φ	λ	H (m)	Date 1951	g 979.	g_0 979.	g_0'' 979.	Helmert Formula of 1901 γ_0 979.	Helmert Formula of 1901 Δg_0 (mgal.)	Helmert Formula of 1901 $\Delta g_0''$ (mgal.)	International Formula γ_0 979.	International Formula Δg_0 (mgal.)	International Formula $\Delta g_0''$ (mgal.)
		35°,	133°,											
2265	1226	26.1	07.4	3.04	XII 22	79638	7973	7970	7670	30.3	30.0	7825	14.8	14.5
2263	1227	25.8	09.7	2.05	〃	80037	8010	8008	7666	34.4	34.2	7821	18.9	18.7
2261	1228	25.8	11.8	1.42	〃	80293	8034	8032	7666	36.8	36.6	7821	21.3	21.1
2259	1229	25.5	14.2	2.59	〃	80350	8043	8040	7661	38.2	37.9	7817	22.6	22.3
2257	1230	25.4	16.6	3.47	〃	80601	8071	8067	7660	41.1	40.7	7815	25.6	25.2
2254	1124	24.4	19.2	1.94	〃	80345	8041	8038	7646	39.5	39.2	7801	24.0	23.7

Synoptic Results for Shimane Prefecture (II).

B.M.	No.	φ	λ	H (m)	Date 1951	g 979.	g_0 979.	g_0'' 979.	Helmert Formula of 1901 γ_0 979.	Helmert Formula of 1901 Δg_0 (mgal.)	Helmert Formula of 1901 $\Delta g_0''$ (mgal.)	International Formula γ_0 979.	International Formula Δg_0 (mgal.)	International Formula $\Delta g_0''$ (mgal.)
		34° ,	132° ,											
3190	1162	53.4	07.9	170.96	XII 19	71953	7723	7532	7206	51.7	32.6	7363	36.0	16.9
3188	1173	53.1	09.5	177.03	〃	71215	7668	7470	7202	46.6	26.8	7358	31.0	11.2
3186	1163	52.7	11.3	238.78	〃	69628	7700	7433	7196	50.4	23.7	7353	34.7	8.0
3184	1164	52.5	13.5	219.99	〃	69963	7675	7429	7193	48.2	23.6	7350	32.5	7.9
3182	1165	52.1	15.3	253.88	〃	69205	7704	7420	7188	51.6	23.2	7344	36.0	7.6
3180	1166	50.5	16.1	365.60	〃	66163	7745	7335	7165	58.0	17.0	7322	42.3	1.3
3178	1167	49.5	16.1	434.97	〃	64457	7788	7301	7151	63.7	15.0	7308	48.0	−0.7
3176	1168	49.4	18.2	289.22	〃	66943	7587	7263	7150	43.7	11.3	7306	28.1	−4.3
3173	1172	51.0	20.4	185.72	〃	69350	7508	7300	7172	33.6	12.8	7329	17.9	−2.9
3171	1171	50.2	22.5	247.07	〃	68047	7567	7291	7161	40.6	13.0	7317	25.0	−2.6
3169	1169	49.7	24.1	323.54	〃	66457	7644	7282	7154	49.0	12.8	7310	33.4	−2.8
〃	〃	〃	〃	〃	〃	66454	7644	7282	〃	49.0	12.8	〃	33.4	−2.8

Synoptic Results for Shimane Prefecture (III).

B.M.	No.	φ	λ	H (m)	Date 1951	g 979.	g_0 979.	g_0'' 979.	Helmert Formula of 1901			International Formula		
									γ_0 979.	Δg_0 (mgal.)	$\Delta g_0''$ (mgal.)	γ_0 979.	Δg_0 (mgal.)	$\Delta g_0''$ (mgal.)
		35° ′	132° ′											
2283	1203	21.8	54.2	65.86	XII 21	79606	8164	8090	7609	55.5	48.1	7764	40.0	32.6
2285	1204	19.8	54.6	36.97	〃	79611	8075	8034	7580	49.5	45.4	7736	33.9	29.8
2287	1205	18.1	54.2	41.16	〃	78831	8010	7964	7556	45.4	40.8	7712	29.8	25.2
〃	〃	〃	〃	〃	〃	78799	8007	7961	〃	45.1	40.5	〃	29.5	24.9
2289	1206	16.8	52.2	52.44	〃	78562	8018	7959	7538	48.0	42.1	7693	32.5	26.6
2292	1207	15.5	50.2	106.84	〃	77157	8045	7926	7519	52.6	40.7	7675	37.0	25.1
2295	1208	13.8	49.3	160.19	〃	75637	8058	7879	7495	56.3	38.4	7651	40.7	22.8
2297	1209	12.1	49.0	199.36	〃	74340	8049	7826	7471	57.8	35.5	7627	42.2	19.9
2299	1210	10.3	49.3	245.86	〃	72891	8048	7773	7445	60.3	32.8	7601	44.7	17.2
〃	〃	〃	〃	〃	〃	72884	8047	7772	〃	60.2	32.7	〃	44.6	17.1
2301	1211	08.9	47.9	332.18	〃	70623	8087	7716	7425	66.2	29.1	7581	50.6	13.5
2304	1212	07.0	46.6	530.83	〃	66306	8269	7675	7399	87.0	27.6	7555	71.4	12.0
2307	1213	05.3	48.2	479.29	〃	66704	8150	7613	7374	77.6	23.9	7531	61.9	8.2
〃	〃	〃	〃	〃	〃	66698	8149	7613	〃	77.5	23.9	〃	61.8	8.2
2309	1214	04.0	46.8	449.39	〃	66574	8044	7541	7356	68.8	18.5	7512	53.2	2.9
2311	1215	02.8	44.9	425.37	〃	66611	7974	7498	7339	63.5	15.9	7495	47.9	0.3
2314	1216	00.7	43.5	425.04	〃	66406	7952	7477	7309	64.3	16.8	7466	48.6	1.1
		34°												
2316	1217	58.8	43.6	467.66	〃	65272	7970	7447	7282	68.8	16.5	7439	53.1	0.8
2318	1219	57.5	44.3	579.53	〃	62781	8067	7418	7264	80.3	15.4	7420	64.7	−0.2

(32) Okayama Prefecture.

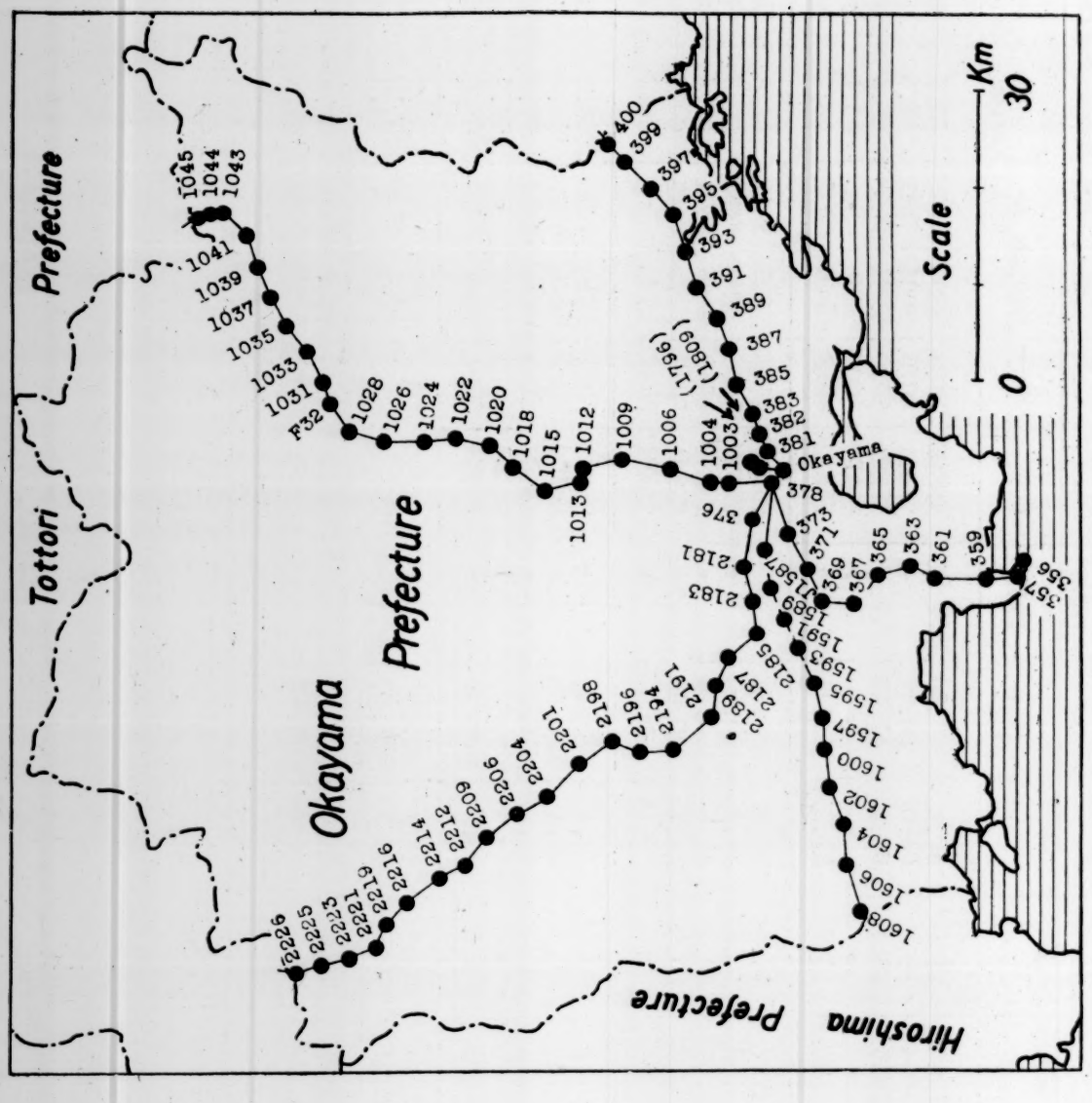

Fig. 9. Gravity Stations in Okayama Prefecture.

Table XVI. Synoptic Results for Okayama Prefecture (I).

B.M.	No.	φ	λ	H (m)	Date 1952	g 979.	g_0 979.	g_0'' 979.	Helmert Formula of 1901 γ_0 979.	Helmert Formula of 1901 Δg_0 (mgal.)	Helmert Formula of 1901 $\Delta g_0''$ (mgal.)	International Formula γ_0 979.	International Formula Δg_0 (mgal.)	International Formula $\Delta g_0''$ (mgal.)
		34° ′	133°′											
1608	1865	34.6	25.6	30.04	VI 28	70066	7099	7066	6941	15.8	12.5	7098	0.1	− 3.2
1606	1864	35.4	27.8	36.96	〃	70057	7120	7078	6952	16.8	12.6	7109	1.1	− 3.1
1604	1863	35.5	30.1	31.67	VI 27	70728	7171	7135	6954	21.7	18.1	7111	6.0	2.4
1602	1862	36.0	32.6	26.31	〃	71290	7210	7181	6961	24.9	22.0	7118	9.2	6.3
1600	1861	37.0	35.0	23.45	〃	71927	7265	7239	6975	29.0	26.4	7132	13.3	10.7
1597	1860	36.8	38.2	18.07	〃	71730	7229	7209	6972	25.7	23.7	7129	10.0	8.0
1595	1859	37.4	40.6	14.64	〃	71867	7232	7216	6980	25.2	23.6	7137	9.5	7.9
1593	1858	38.3	43.2	11.07	〃	71841	7218	7206	6993	22.5	21.3	7150	6.8	5.6
1591	1857	39.1	45.3	30.84	〃	71540	7249	7215	7004	24.5	21.1	7161	8.8	5.4
1589	1856	39.8	47.6	20.92	〃	71934	7258	7235	7014	24.4	22.1	7171	8.7	6.4
J. 1587	1855	40.1	50.3	3.84	〃	72490	7261	7257	7018	24.3	23.9	7175	8.6	8.2
378	1810	39.9	54.1	2.56	VI 25	72152	7223	7220	7016	20.7	20.4	7173	5.0	4.7
381	1797	40.0	57.1	5.03	VI 24	72371	7253	7247	7017	23.6	23.0	7174	7.9	7.3
382	1798	40.3	58.0	4.16	〃	72490	7262	7257	7021	24.1	23.6	7178	8.4	7.9
383	1799	40.6	59.2	3.04	〃	72697	7279	7276	7025	25.4	25.1	7182	9.7	9.4
			134°											
385	1800	41.8	01.5	5.27	〃	73505	7367	7361	7042	32.5	31.9	7199	16.8	16.2
387	1801	41.9	03.7	3.96	〃	73653	7378	7373	7044	33.4	32.9	7201	17.7	17.2
389	1802	42.7	06.0	13.57	〃	73628	7405	7390	7055	35.0	33.5	7212	19.3	17.8
〃	〃	〃	〃	〃	〃	73631	7405	7390	7055	35.0	33.5	〃	19.3	17.8
391	1803	43.8	07.9	14.67	〃	73557	7401	7385	7071	33.0	31.4	7227	17.4	15.8
393	1804	44.2	10.3	12.92	〃	73735	7413	7399	7076	33.7	32.3	7233	18.0	16.6
395	1805	45.1	12.6	41.93	〃	72778	7407	7360	7089	31.8	27.1	7246	16.1	11.4
397	1806	46.3	14.6	57.58	〃	72513	7429	7365	7106	32.8	25.9	7263	16.6	10.2
399	1807	47.8	16.2	86.49	〃	72186	7486	7389	7127	35.9	26.2	7284	20.2	10.5
400	1808	48.5	17.2	105.65	〃	71794	7505	7387	7137	36.8	25.0	7294	21.1	9.3

Synoptic Results for Okayama Prefecture (II).

B.M.	No.	φ	λ	H	Date	g	g_0	g_0''	HELMERT Formula of 1901			International Formula		
				(m)	1952	979.	979.	979.	γ_0 979.	Δg_0 (mgal.)	$\Delta g_0''$ (mgal.)	γ_0 979.	Δg_0 (mgal.)	$\Delta g_0''$ (mgal.)
		34° ′	133°′											
376	1834	40.5	52.2	2.81	VI 26	72233	7232	7229	7024	20.8	20.5	7181	5.1	4.8
2181	1835	41.3	49.0	7.81	〃	72202	7244	7236	7035	20.9	20.1	7192	5.2	4.4
2183	1836	40.7	46.6	10.46	〃	72071	7239	7228	7027	21.2	20.1	7184	5.5	4.4
2185	1837	40.7	44.2	17·83	〃	71782	7233	7213	7027	20.6	18.6	7184	4.9	2.9
2187	1838	42.1	43.2	28.00	〃	71553	7242	7210	7047	19.5	16.3	7203	3.9	0.7
2189	1839	42.9	41.0	33.16	〃	71268	7229	7192	7058	17.1	13.4	7215	1.4	−2.3
2191	1840	43.2	38.8	40.45	〃	71552	7280	7235	7062	21.8	17.3	7219	6.1	1.6
2194	1841	45.3	36.6	51.13	〃	71507	7309	7251	7092	21.7	15.9	7249	6.0	0.2
2196	1842	46.9	36.8	59.53	〃	71153	7299	7232	7114	18.5	11.8	7271	2.8	−3.9
2198	1843	48.8	37.1	75.96	〃	70543	7289	7204	7141	14.8	6.3	7298	−0.9	−9.4
2201	1844	50.7	35.6	91.08	〃	70484	7330	7228	7168	16.2	6.0	7325	0.5	−9.7
2204	1845	52.3	33.7	107.10	〃	71322	7463	7343	7191	27.2	15.2	7347	11.6	−0.4
2206	1846	53.8	32.4	127.18	〃	70882	7481	7338	7212	26.9	12.6	7368	11.3	−3.0
2209	1847	55.6	30.7	147.99	〃	70815	7538	7373	7237	30.1	13.6	7394	14.4	−2.1
2212	1848	56.9	28.9	164.77	〃	70541	7563	7378	7256	30.7	12.2	7412	15.1	−3.4
2214	1849	58.8	28.2	186.54	〃	70365	7612	7404	7282	33.0	12.2	7439	17.3	−3.5
		35°												
2216	1850	00.1	26.8	215.43	VI 27	69900	7655	7414	7301	35.4	11.3	7457	19.8	−4.3
2219	1851	00.5	24.7	361.73	〃	67290	7845	7441	7306	53.9	13.5	7463	38.2	−2.2
2221	1852	01.6	23.6	303.17	〃	68702	7806	7467	7322	48.4	14.5	7478	32.8	−1.1
2223	1853	03.2	23.1	349.34	〃	67808	7859	7468	7345	51.4	12.3	7501	35.8	−3.3
2225	1854	04.4	22.0	410.56	〃	66531	7920	7461	7362	55.8	9.9	7518	40.2	−5.7
2226	1139	05.5	22.2	450.45	〃	66195	8010	7506	7377	63.3	12.9	7533	47.7	−2.7

Synoptic Results for Okayama Prefecture (III).

B.M.	No.	φ	λ	H (m)	Date 1952	g 979.	g_0 979.	g_0'' 979.	Helmert Formula of 1901 γ_0 979.	Helmert Formula of 1901 Δg_0 (mgal.)	Helmert Formula of 1901 $\Delta g_0''$ (mgal.)	International Formula γ_0 979.	International Formula Δg_0 (mgal.)	International Formula $\Delta g_0''$ (mgal.)
		34° ′	133°′											
O.$_1$*	1796	41.1	55.2	3.85	VI 24	72274	7239	7235	7032	20.7	20.3	7189	5.0	4.6
Okayama W.S.**	1809	40.5	54.6	3.27	〃	72246	7235	7231	7024	21.1	20.7	7181	5.4	5.0
1003	1811	42.4	54.5	8.97	VI 25	72245	7252	7242	7051	20.1	19.1	7208	4.4	3.4
1004	1812	43.5	54.6	18.14	〃	72213	7277	7257	7066	21.1	19.1	7223	5.4	3.4
1006	1813	44.9	54.7	97.00	〃	71030	7402	7294	7086	31.6	20.8	7243	15.9	5.1
1009	1814	47.7	56.2	35.32	〃	72912	7400	7361	7126	27.4	23.5	7282	11.8	7.9
1012	1815	50.2	55.6	47.51	〃	72764	7423	7370	7161	26.2	20.9	7317	10.6	5.3
1013	1816	50.1	54.6	51.33	〃	72656	7424	7367	7159	26.5	20.8	7316	10.8	5.1
1015	1817	52.1	54.0	63.27	〃	72589	7454	7383	7188	26.6	19.5	7344	11.0	3.9
1018	1818	53.8	56.0	95.66	〃	72577	7553	7446	7212	34.1	23.4	7368	18.5	7.8
1020	1819	55.1	57.4	121.33	〃	72715	7646	7511	7230	41.6	28.1	7387	25.9	12.4
1022	1820	57.0	57.7	154.42	〃	72629	7739	7567	7257	48.2	31.0	7413	32.6	15.4
1024	1821	59.0	57.7	156.27	〃	72316	7715	7540	7285	43.0	25.5	7442	27.3	9.8
		35°												
1026	1822	00.7	57.7	127.23	〃	72719	7665	7522	7309	35.6	21.3	7466	19.9	5.6
1028	1823	02.5	58.3	102.10	〃	73283	7643	7529	7335	30.8	19.4	7491	15.2	3.8
			134°											
F. 32	1824	03.2	00.7	91.51	〃	74159	7698	7596	7345	35.3	25.1	7501	19.7	9.5
1031	1825	03.7	01.3	88.90	〃	74298	7704	7605	7352	35.2	25.3	7508	19.6	9.7
〃	〃	〃	〃	〃	〃	74308	7705	7606	〃	35.3	25.4	〃	19.7	9.8
1033	1826	04.1	03.5	105.23	〃	74200	7745	7627	7357	38.8	27.0	7514	23.1	11.3
1035	1827	05.3	05.2	156.72	〃	72967	7780	7605	7374	40.6	23.1	7531	24.9	7.4
1037	1828	06.3	07.5	189.36	〃	72489	7833	7621	7389	44.4	23.2	7545	28.8	7.6
1039	1829	06.9	09.4	225.04	〃	72187	7913	7661	7397	51.6	26.4	7553	36.0	10.8
1041	1830	07.5	11.7	269.96	〃	71352	7968	7666	7406	56.2	26.0	7562	40.6	10.4
1043	1831	08.9	13.1	328.59	〃	69459	7960	7592	7425	53.5	16.7	7581	37.9	1.1
〃	〃	〃	〃	〃	〃	69466	7961	7593	7425	53.6	16.8	〃	38.0	1.2
1044	1832	09.9	12.7	472.10	〃	66729	8130	7602	7440	69.0	16.2	7596	53.4	0.6
1045	1091	10.9	12.8	581.77	〃	64522	8248	7597	7454	79.4	14.3	7610	63.8	−1.3

* Okayama Prefecture Bench Mark. ** Weather Station Bench Mark.

Synoptic Results for Okayama Prefecture (IV).

B.M.	No.	φ	λ	H	Date	g	g_0	g_0''	HELMERT Formula of 1901			International Formula		
				(m)	1952	979.	979.	979.	γ_0 979.	Δg_0 (mgal.)	$\Delta g_0''$ (mgal.)	γ_0 979.	Δg_0 (mgal.)	$\Delta g_0''$ (mgal.)
		34° ,	133°,											
373	1866	38.3	50.7	2.06	VI 28	72064	7213	7211	6993	22.0	21.8	7150	6.3	6.1
371	1867	37.5	48.6	2.05	〃	71991	7205	7203	6982	22.3	22.1	7139	6.6	6.4
369	1868	36.3	46.3	3.99	〃	71792	7192	7187	6965	22.7	22.2	7122	7.0	6.5
367	1869	35.2	47.7	3.73	〃	72257	7235	7231	6949	28.6	28.2	7107	12.8	12.4
365	1870	33.6	48.7	2.31	〃	72397	7247	7244	6927	32.0	31.7	7084	16.3	16.0
363	1871	31.8	48.7	6.59	〃	72192	7240	7232	6902	33.8	33.0	7059	18.1	17.3
361	1872	29.9	48.1	26.80	〃	71690	7253	7223	6875	37.8	34.8	7032	22.1	19.1
359	1873	28.0	48.2	1.83	〃	71752	7181	7179	6848	33.3	33.1	7006	17.5	17.3
357	1875	26.0	48.4	3.46	〃	71235	7134	7130	6820	31.4	31.0	6978	15.6	15.2
356	1874	25.6	49.5	48.37	〃	70600	7209	7155	6815	39.4	34.0	6972	23.7	18.3

(33) Hiroshima Prefecture.

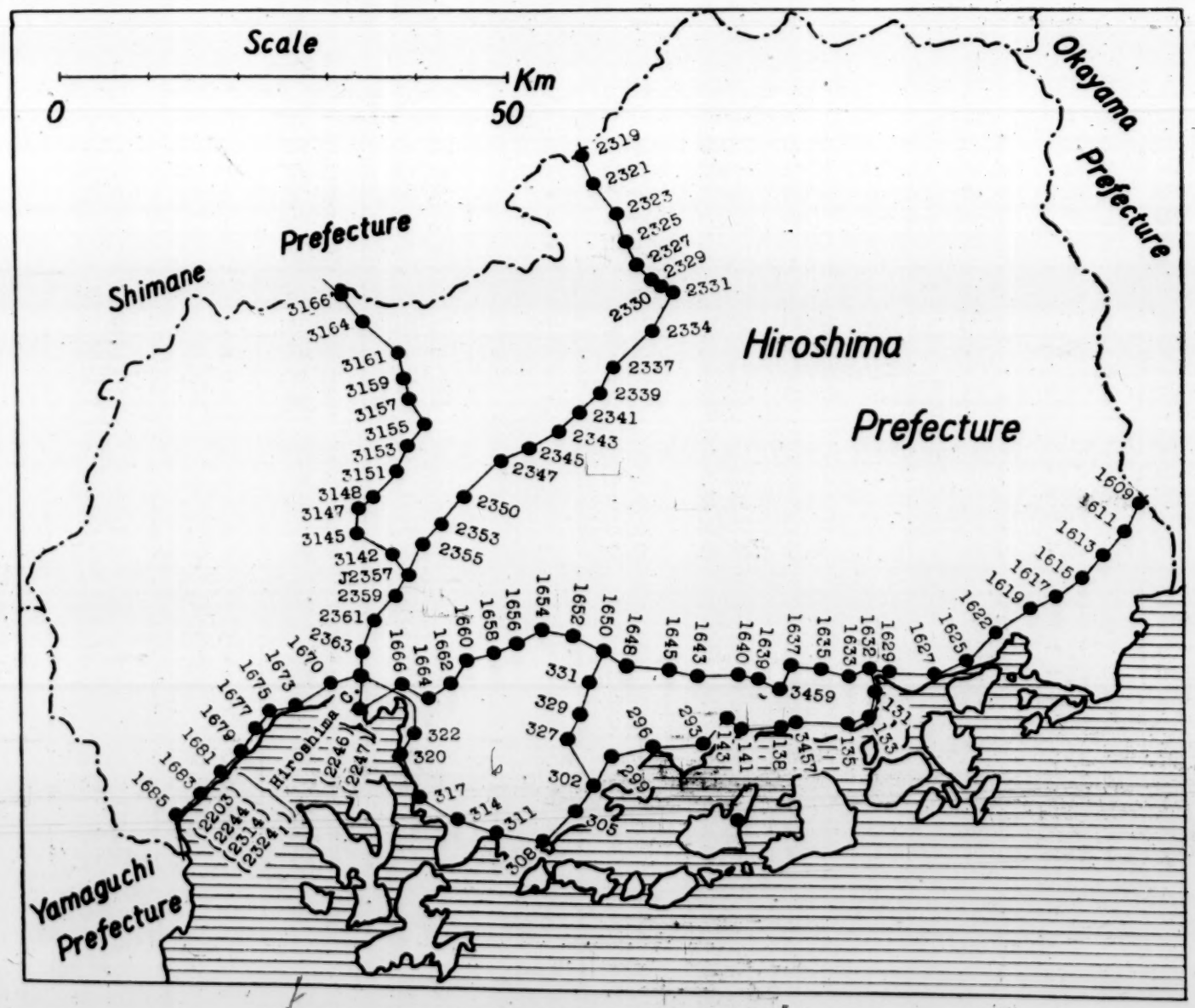

Fig. 10. Gravity Stations in Hiroshima Prefecture.

Table XVII. Synoptic Results for Hiroshima Prefecture (I).

B.M.	No.	φ	λ	H (m)	Date 1952	g 979.	g_0 979.	g_0'' 979.	HELMERT Formula of 1901 γ_0 979.	HELMERT Formula of 1901 Δg_0 (mgal.)	HELMERT Formula of 1901 $\Delta g_0''$ (mgal.)	International Formula γ_0 979.	International Formula Δg_0 (mgal.)	International Formula $\Delta g_0''$ (mgal.)
		34°,	132°,											
1685	2322	14.4	13.4	3.12	VIII 29	65251	6535	6531	6657	−12.2	−12.6	6815	−28.0	−28.4
1683	2321	15.8	15.2	3.66	〃	65228	6534	6530	6677	−14.3	−14.7	6835	−30.1	−30.5
1681	2320	17.2	16.6	2.39	〃	65302	6538	6535	6697	−15.9	−16.2	6854	−31.6	−31.9
1679	2319	18.3	18.2	2.89	〃	65450	6554	6551	6712	−15.8	−16.1	6870	−31.6	−31.9
1677	2318	20.0	19.2	3.02	〃	65782	6588	6584	6736	−14.8	−15.2	6893	−30.5	−30.9
1675	2317	21.3	20.7	3.13	〃	65901	6600	6596	6754	−15.4	−15.8	6912	−31.2	−31.6
1673	2316	22.0	22.5	2.97	〃	66283	6638	6634	6764	−12.6	−13.0	6921	−28.3	−28.7
1670	2315	23.5	25.3	2.99	〃	66663	6676	6672	6785	−10.9	−11.3	6942	−26.6	−27.0
Hiroshima M.O.*	2246	21.5	26.2	29.31	VIII 26	66126	6703	6670	6757	− 5.4	− 8.7	6914	−21.1	−24.4
Enami △ **	2247	21.8	26.3	35.60	〃	65950	6705	6665	6761	− 5.6	− 9.6	6919	−21.4	−25.4
1666	2248	23.4	30.0	0.97	〃	67321	6735	6734	6784	− 4.9	− 5.0	6941	−20.6	−20.7
1664	2249	22.3	31.9	3.00	〃	67356	6745	6742	6768	− 2.3	− 2.6	6926	−18.1	−18.4
1662	2250	23.2	33.8	9.29	〃	67388	6768	6757	6781	− 1.3	− 2.4	6938	−17.0	−18.1
1660	2251	24.8	35.3	44.04	〃	66694	6805	6756	6803	0.2	− 4.7	6961	−15.6	−20.5
1658	2252	25.5	37.5	82.17	〃	66303	6884	6792	6813	7.1	− 2.1	6971	− 8.7	−17.9
1656	2253	26.2	39.1	167.21	〃	64811	6997	6810	6823	17.4	− 1.3	6980	1.7	−17.0
1654	2254	26.6	41.0	247.25	〃	63482	7111	6835	6829	28.2	0.6	6986	12.5	−15.1
1652	2255	26.3	43.3	226.25	〃	64006	7099	6846	6824	27.5	2.2	6982	11.7	−13.6
1650	2256	25.5	45.3	212.59	〃	64391	7095	6857	6813	28.2	4.4	6971	12.4	−11.4
1648	2257	24.4	47.1	299.76	〃	62569	7182	6847	6798	38.4	4.9	6955	22.7	−10.8
1645	2258	24.2	50.5	124.02	〃	66139	6997	6858	6795	20.2	6.3	6952	4.5	− 9.4
1643	2259	23.6	52.8	58.71	〃	67867	6968	6900	6787	18.1	11.3	6944	2.4	− 4.4
1640	2260	23.5	55.8	125.75	〃	66809	7069	6928	6785	28.4	14.3	6942	12.7	− 1.4
1639	2261	23.5	56.8	53.15	〃	68292	6993	6934	6785	20.8	14.9	6942	5.1	− 0.8
3459	2262	23.0	58.3	25.29	〃	68936	6972	6943	6778	19.4	16.5	6935	3.7	0.8

* Meteorological Observatory Bench Mark. ** Triangulation Point.

J.	1637	2263	24.4	58.9	7.67	〃	69518	6976	6967	6798	17.8	16.9	6955	2.1	1.2
				133°		〃									
	1635	2264	24.0	01.0	9.21	〃	69380	6966	6956	6792	17.4	16.4	6949	1.7	0.7
	1633	2265	23.3	03.8	4.05	〃	69395	6952	6948	6782	17.0	16.6	6940	1.2	0.8
	1632	2266	24.0	03.9	11.66	〃	69150	6951	6938	6792	15.9	14.6	6949	0.2	− 1.1
	1629	2267	22.8	06.9	3.07	〃	69131	6923	6919	6775	14.8	14.4	6933	− 1.0	− 1.4
	1627	2268	23.7	09.6	12.89	〃	69114	6951	6937	6788	16.3	14.9	6945	0.6	− 0.8
	1625	2269	24.1	11.9	2.89	〃	69525	6961	6958	6794	16.7	16.4	6951	1.0	0.7
	1622	2270	25.7	13.7	4.24	〃	69690	6982	6977	6816	16.6	16.1	6973	0.9	0.4
	1619	2271	27.2	16.5	7.90	〃	70163	7041	7032	6837	20.4	19.5	6994	4.7	3.8
	1617	2272	28.2	18.7	10.76	〃	70341	7067	7055	6851	21.6	20.4	7008	5.9	4.7
	1615	2273	29.7	20.4	5.09	〃	70562	7072	7066	6872	20.0	19.4	7029	4.3	3.7
	1613	2275	31.2	21.8	7.85	VIII 27	70671	7091	7083	6893	19.8	19.0	7050	4.1	3.3
	1611	2276	32.6	23.5	12.21	〃	70417	7079	7066	6913	16.6	15.3	7070	0.9	− 0.4
	1609	2277	34.1	24.6	21.30	〃	70138	7080	7056	6934	14.6	12.2	7091	− 1.1	− 3.5

Synoptic Results for Hiroshima Prefecture (II).

B.M.	No.	φ	λ	H (m)	Date 1952	g 979.	g_0 979.	g_0'' 979.	Helmert Formula of 1901 γ_0 979.	Helmert Formula of 1901 Δg_0 (mgal.)	Helmert Formula of 1901 $\Delta g_0''$ (mgal.)	International Formula γ_0 979.	International Formula Δg_0 (mgal.)	International Formula $\Delta g_0''$ (mgal.)
		34° ′	132°′											
2363	2204	25.3	27.5	6.33	VIII 24	67044	6724	6717	6810	− 8.6	− 9.3	6968	−24.4	−25.1
2361	2205	27.1	28.6	10.31	〃	67301	6762	6750	6836	− 7.4	− 8.6	6993	−23.1	−24.3
2359	2206	28.8	30.0	16.85	〃	67552	6807	6788	6860	− 5.3	− 7.2	7017	−21.0	−22.9
J. 2357	2207	30.5	30.9	21.54	〃	67986	6865	6841	6883	− 1.8	− 4.2	7041	−17.6	−20.0
〃	〃	〃	〃	〃	〃	67976	6864	6840	〃	− 1.9	− 4.3	〃	−17.7	−20.1
〃	2243	〃	〃	〃	VIII 25	67996	6866	6842	〃	− 1.7	− 4.1	〃	−17.5	−19.9
3142	2231	31.6	29.3	76.24	〃	67235	6959	6874	6899	6.0	− 2.5	7056	− 9.7	−18.2
3145	2232	32.8	27.0	94.45	〃	67151	7007	6901	6916	9.1	− 1.5	7073	− 6.6	−17.2
3147	2233	34.6	27.5	169.86	〃	65947	7119	6929	6941	17.8	− 1.2	7098	2.1	−16.9
3148	2234	35.0	28.5	239.87	〃	64677	7208	6940	6947	26.1	− 0.7	7104	10.4	−16.4
3151	2235	36.6	30.2	385.09	〃	62326	7421	6990	6969	45.2	2.1	7126	29.5	−13.6
3153	2236	38.5	31.0	302.49	〃	64598	7393	7055	6996	39.7	5.9	7153	24.0	− 9.8
3155	2242	40.3	32.2	272.18	〃	65668	7407	7102	7021	38.6	8.1	7178	22.9	− 7.6
3157	2241	41.9	30.8	291.87	〃	65636	7464	7138	7044	42.0	9.4	7201	26.3	− 6.3
3159	2237	43.7	30.5	366.95	〃	64360	7568	7158	7069	49.9	8.9	7226	34.2	− 6.8

Table XVII. (II) (Continued)

B.M.	No.	φ	λ	H (m)	Date 1952	g 979.	g_0 979.	g_0'' 979.	Helmert Formula of 1901 γ_0 979.	Helmert Formula of 1901 Δg_0 (mgal.)	Helmert Formula of 1901 $\Delta g_0''$ (mgal.)	International Formula γ_0 979.	International Formula Δg_0 (mgal.)	International Formula $\Delta g_0''$ (mgal.)
		34°,	132°,											
3161	2238	45.3	29.8	377.81	VIII 25	64510	7617	7194	7092	52.5	10.2	7249	36.8	− 5.5
3164	2239	45.8	26.7	433.99	〃	63767	7716	7230	7099	61.7	13.1	7256	46.0	− 2.6
3166	2240	48.6	26.2	555.73	〃	61577	7873	7251	7138	73.5	11.3	7295	57.8	− 4.4

Synoptic Results for Hiroshima Prefecture (III).

B.M.	No.	φ	λ	H (m)	Date 1952	g 979.	g_0 979.	g_0'' 979.	Helmert Formula of 1091 γ_0 979.	Helmert Formula of 1091 Δg_0 (mgal.)	Helmert Formula of 1091 $\Delta g_0''$ (mgal.)	International Formula γ_0 979.	International Formula Δg_0 (mgal.)	International Formula $\Delta g_0''$ (mgal.)
		34° ,	132°,											
2355	2208	32.4	32.0	62.25	VIII 24	67634	6956	6886	6910	4.6	− 2.4	7067	−11.1	−18.1
2353	2209	33.9	33.6	130.34	〃	66308	7033	6887	6931	10.2	− 4.4	7088	− 5.5	−20.1
2350	2210	35.6	35.5	264.11	〃	64640	7279	6984	6955	32.4	2.9	7112	16.7	−12.8
2347	2211	37.6	38.3	216.54	〃	66064	7275	7032	6983	29.2	4.9	7140	13.5	−10.8
2345	2212	38.6	40.4	207.05	〃	66302	7269	7038	6997	27.2	4.1	7154	11.5	−11.6
2343	2213	39.6	42.6	199.99	〃	66356	7253	7029	7011	24.2	1.8	7168	8.5	−13.9
2341	2214	40.7	44.5	196.99	〃	66416	7250	7029	7027	22.3	0.2	7184	6.6	−15.5
2339	2215	42.1	45.8	188.62	〃	67028	7285	7074	7047	23.8	2.7	7203	8.2	−12.9
2337	2216	44.0	47.0	176.57	〃	67675	7312	7115	7073	23.9	4.2	7230	8.2	−11.5
2334	2217	46.0	49.7	165.23	〃	68049	7315	7130	7102	21.3	2.8	7258	5.7	−12.8
2331	2218	48.2	51.2	156.17	〃	68832	7365	7190	7133	23.2	5.7	7289	7.6	− 9.9
〃	2228	〃	〃	〃	〃	68831	7365	7190	〃	23.2	5.7	〃	7.6	− 9.9
2330	2227	48.7	50.6	166.17	〃	68560	7369	7183	7140	22.9	4.3	7296	7.3	−11.3
2329	2219	49.1	49.4	152.77	〃	68738	7345	7174	7145	20.0	2.9	7302	4.3	−12.8
2327	2220	50.4	48.2	170.52	〃	68650	7391	7200	7164	22.7	3.6	7320	7.1	−12.0
2325	2221	52.3	47.4	210.61	〃	68446	7495	7259	7191	30.4	6.8	7347	14.8	− 8.8
2323	2222	54.0	46.8	291.03	〃	67240	7622	7296	7215	40.7	8.1	7371	25.1	− 7.5
2321	$2223._1$	55.0	45.6	404.23	〃	65667	7814	7362	7229	58.5	13.3	7385	42.9	− 2.3
〃	$2226._1$	〃	〃	〃	〃	65670	7815	7362	〃	58.6	13.3	〃	43.0	− 2.3
2319	2224	56.8	44.3	524.54	〃	63843	8003	7416	7254	74.9	16.2	7411	59.2	0.5

Synoptic Results for Hiroshima Prefecture (IV).

B.M.	No.	φ	λ	H	Date	g	g_0	g_0''	Helmert Formula of 1901			International Formula		
				(m)	1952	979.	979.	979.	γ_0 979.	Δg_0 (mgal.)	$\Delta g_0''$ (mgal.)	γ_0 979.	Δg_0 (mgal.)	$\Delta g_0''$ (mgal.)
		34°,	132°,											
322	2313	20.8	31.5	3.64	VIII 29	67218	6733	6729	6747	− 1.4	− 1.8	6905	−17.2	−17.6
320	2312	19.2	30.1	2.95	〃	66759	6685	6682	6725	− 4.0	− 4.3	6882	−19.7	−20.0
317	2311	16.6	31.3	3.67	〃	66540	6665	6661	6688	− 2.3	− 2.7	6846	−18.1	−18.5
314	2310	14.7	33.5	3.40	〃	66608	6671	6668	6662	0.9	0.6	6819	−14.8	−15.1
311	2309	14.3	36.0	3.73	〃	66824	6694	6690	6656	3.8	3.4	6814	−12.0	−12.4
308	2308	13.0	39.7	3.03	〃	67011	6711	6707	6638	7.3	6.9	6796	− 8.5	− 8.9
305	2307	14.3	42.7	18.94	〃	66847	6743	6722	6656	8.7	6.6	6814	− 7.1	− 9.2
302	2306	16.8	44.7	1.36	〃	67673	6772	6770	6691	8.1	7.9	6849	− 7.7	− 7.9
327	2301	19.6	42.5	171.43	VIII 28	64600	6989	6797	6730	25.9	6.7	6888	10.1	− 9.1
329	2302	21.4	43.5	173.31	〃	64651	7000	6806	6756	24.4	5.0	6913	8.7	−10.7
331	2303	23.3	44.3	188.44	〃	64634	7045	6834	6782	26.3	5.2	6940	10.5	−10.6

Synoptic Results for Hiroshima Prefecture (V).

B.M.	No.	φ	λ	H	Date	g	g_0	g_0''	Helmert Formula of 1901			International Formula		
				(m)	1952	979.	979.	979.	γ_0 979.	Δg_0 (mgal.)	$\Delta g_0''$ (mgal.)	γ_0 979.	Δg_0 (mgal.)	$\Delta g_0''$ (mgal.)
		34°,	132°,											
299	2299	18.5	45.5	84.27	VIII 28	66347	6895	6801	6715	18.0	8.6	6872	2.3	− 7.1
296	2298	18.9	48.6	3.05	〃	68384	6848	6844	6721	12.7	12.3	6878	− 3.0	− 3.4
293	2297	19.3	51.8	29.70	〃	67781	6870	6837	6726	14.4	11.1	6884	− 1.4	− 4.7
143	2296	21.7	53.6	2.90	〃	68528	6862	6859	6760	10.2	9.9	6917	− 5.5	− 5.8
141	2295	20.1	55.2	2.65	〃	68495	6858	6855	6737	12.1	11.8	6895	− 3.7	− 4.0
138	2284	20.3	57.5	12.79	VIII 27	68473	6887	6873	6740	14.7	13.3	6898	− 1.1	− 2.5
3457	2283	21.1	59.1	90.23	〃	67216	7000	6899	6751	24.9	14.8	6909	9.1	− 1.0
			133°											
135	2282	20.1	02.6	2.70	〃	69050	6913	6910	6737	17.6	17.3	6895	1.8	1.5
133	2281	20.5	04.6	3.75	〃	69157	6927	6923	6743	18.4	18.0	6900	2.7	2.3
131	2280	22.4	05.4	3.38	〃	69035	6914	6910	6770	14.4	14.0	6927	− 1.3	− 1.7

B.M. printed in Gothic type are 2nd order bench marks.

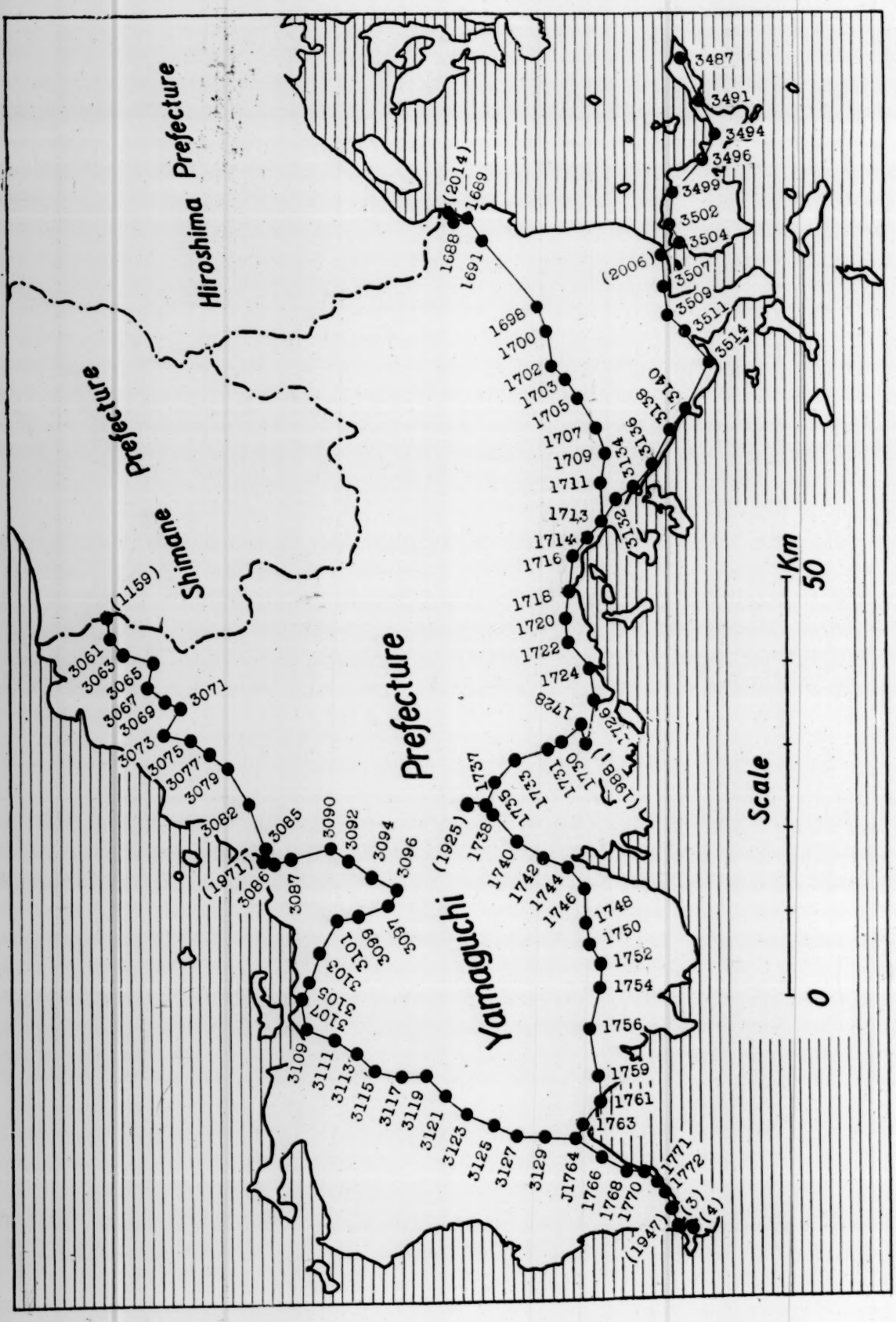

Fig. 11. Gravity Stations in Yamaguchi Prefecture.

Table XVIII. Synoptic Results for Yamaguchi Prefecture (I).

B.M.	No.	φ	λ	H	Date	g	g_0	g_0''	HELMERT Formula of 1901			International Formula		
				(m)	1952	979.	979.	979.	γ_0 979.	Δg_0 (mgal.)	$\Delta g_0''$ (mgal.)	γ_0 979.	Δg_0 (mgal.)	$\Delta g_0''$ (mgal.)
		33° ′	130° ′											
Shimonoseki W.S.*	1947	57.0	56.0	45.80	VII 20	67618	6903	6852	6414	48.9	43.8	6573	33.0	27.9
(4)	1946	56.1	57.9	21.27	VII 19	68023	6868	6844	6402	46.6	44.2	6560	30.8	28.4
(3)	1945	57.0	55.1	2.14	〃	68639	6871	6868	6414	45.7	45.4	6573	29.8	29.5
1772	1944	57.6	57.4	6.18	〃	68438	6863	6856	6423	44.0	43.3	6581	28.2	27.5
1771	1943	58.2	58.4	5.22	〃	68485	6865	6859	6431	43.4	42.8	6589	27.6	27.0
1770	1942	58.8	59.3	4.81	〃	68268	6842	6836	6439	40.3	39.7	6598	24.4	23.8
		34°												
1768	1941	00.7	59.9	5.00	〃	67991	6815	6809	6466	34.9	34.3	6624	19.1	18.5
			131°											
1766	1940	02.6	02.2	4.46	〃	68027	6817	6812	6492	32.5	32.0	6650	16.7	16.2
J. 1764	1939	04.1	02.1	5.17	〃	67983	6814	6809	6513	30.1	29.6	6671	14.3	13.8
3129	1948	06.0	02.3	75.06	VII 20	67138	6945	6861	6540	40.5	32.1	6698	24.7	16.3
3127	1949	08.0	02.5	16.33	〃	68697	6920	6902	6568	35.2	33.4	6726	19.4	17.6
3125	1950	09.5	03.4	29.68	〃	69518	7043	7010	6589	45.4	42.1	6747	29.6	26.3
3123	1951	11.3	04.8	37.09	〃	69541	7069	7027	6614	45.5	41.3	6772	29.7	25.5
3121	1952	12.6	05.9	54.08	〃	69399	7107	7046	6632	47.5	41.4	6790	31.7	25.6
3119	1953	14.0	07.1	99.44	〃	68485	7155	7044	6652	50.3	39.2	6810	34.5	23.4
3117	1954	15.7	07.5	98.41	〃	68686	7172	7062	6676	49.6	38.6	6833	33.9	22.9
3115	1955	17.3	07.4	127.62	〃	68390	7233	7090	6698	53.5	39.2	6856	37.7	23.4
3113	1956	18.6	08.7	213.67	〃	66751	7335	7095	6716	61.9	37.9	6874	46.1	22.1
3111	1957	20.1	10.5	40.51	〃	70404	7165	7120	6737	42.8	38.3	6895	27.0	22.5
3109	1958	23.0	11.0	7.03	〃	71424	7164	7156	6778	38.6	37.8	6935	22.9	22.1
3107	1959	22.0	13.1	1.56	〃	71350	7140	7138	6764	37.6	37.4	6921	21.9	21.7
3105	1960	21.7	15.6	9.50	〃	70469	7076	7066	6760	31.6	30.6	6917	15.9	14.9
3103	1961	21.0	17.9	36.06	〃	69434	7055	7014	6750	30.5	26.4	6907	14.8	10.7
3101	1962	20.0	19.9	87.63	〃	68084	7079	6981	6736	34.3	24.5	6893	18.6	8.8
3099	1963	18.3	19.8	239.08	〃	65098	7248	6980	6712	53.6	26.8	6870	37.8	11.0

* Weather Station, on the Surface of the Stone Block at the Foot of the Wireless Antenna Tower.

Table XVIII. (I) (Continued)

B.M.	No.	φ	λ	H (m)	Date 1952	g 979.	g_0 979.	g_0'' 979.	Helmert Formula of 1901 γ_0 979.	Helmert Formula of 1901 Δg_0 (mgal.)	Helmert Formula of 1901 $\Delta g_0''$ (mgal.)	International Formula γ_0 979.	International Formula Δg_0 (mgal.)	International Formula $\Delta g_0''$ (mgal.)
		34° ,	131°,											
3097	1964	16.4	20.9	182.36	VII 20	65828	7146	6942	6686	46.0	25.6	6843	30.3	9.9
3096	1965	15.8	21.6	180.19	〃	65786	7135	6933	6677	45.8	25.6	6835	30.0	9.8
3094	1966	17.6	22.6	240.89	〃	64596	7203	6933	6702	50.1	23.1	6860	34.3	7.3
3092	1967	19.1	23.8	90.99	〃	67609	7042	6940	6723	31.9	21.7	6881	16.1	5.9
3090	1968	20.7	25.3	35.54	〃	68419	6952	6912	6746	20.6	16.6	6903	4.9	0.9
3087	1969	23.4	24.3	2.91	〃	69478	6957	6954	6784	17.3	17.0	6941	1.6	1.3
3086	1970	24.4	24.1	2.16	〃	69741	6981	6978	6798	18.3	18.0	6955	2.6	2.3
〃	〃	〃	〃	〃	VII 21	69753	6982	6980	6798	18.4	18.2	〃	2.7	2.5
Hagi W.S.*	1971	24.2	24.1	2.00	〃	69744	6981	6978	6795	18.6	18.3	6952	2.9	2.6
3085	1972	24.6	25.5	15.20	〃	69446	6992	6975	6801	19.1	17.4	6958	3.4	1.7
3082	1973	25.8	28.3	198.06	〃	65772	7188	6967	6817	37.1	15.0	6975	21.3	− 0.8
3079	1974	27.3	31.3	144.80	〃	66667	7114	6952	6838	27.6	11.4	6996	11.8	− 4.4
3077	1975	28.6	32.2	162.94	〃	66928	7196	7013	6857	33.9	15.6	7014	18.2	− 0.1
3075	1976	30.0	33.7	267.60	〃	65095	7335	7036	6876	45.9	16.0	7034	30.1	0.2
3073	1977	32.0	34.4	353.81	〃	64221	7514	7118	6904	61.0	21.4	7062	45.2	5.6
3071	1978	30.9	35.9	381.78	〃	63268	7505	7078	6889	61.6	18.9	7046	45.9	3.2
3069	1979	32.0	37.0	351.04	〃	64438	7527	7134	6904	62.3	23.0	7062	46.5	7.2
3067	1980	33.0	37.8	201.06	〃	67827	7403	7178	6919	48.4	25.9	7076	32.7	10.2
3065	1981	32.5	40.0	182.91	〃	67866	7351	7146	6912	43.9	23.4	7069	28.2	7.7
3063	1982	34.2	40.4	55.07	〃	71058	7276	7214	6935	34.1	27.9	7093	18.3	12.1
3061	1983	35.5	41.6	24.97	〃	72101	7287	7259	6954	33.3	30.5	7111	17.6	14.8

* Weather Station Bench Mark.

Synoptic Results for Yamaguchi Prefecture (II).

B.M.	No.	φ	λ	H	Date	g	g_0	g_0''	HELMERT Formula of 1901			International Formula		
				(m)	1952	979.	979.	979.	γ_0 979.	Δg_0 (mgal.)	$\Delta g_0''$ (mgal.)	γ_0 979.	Δg_0 (mgal.)	$\Delta g_0''$ (mgal.)
		34° ,	131°,											
1763	1938	03.7	03.1	3.27	VII 19	67973	6807	6804	6508	29.9	29.6	6666	14.1	13.8
1761	1937	02.4	04.9	4.81	〃	67881	6803	6798	6490	31.3	30.8	6648	15.5	15.0
1759	1936	02.5	07.1	60.61	〃	66999	6887	6819	6491	39.6	32.8	6649	23.8	17.0
1756	1935	03.0	10.5	12.04	〃	67724	6810	6796	6498	31.2	29.8	6656	15.4	14.0
1754	1934	02.5	12.8	11.69	〃	67046	6741	6728	6491	25.0	23.7	6649	9.2	7.9
1752	1933	02.2	15.0	39.35	〃	66350	6756	6712	6487	26.9	22.5	6645	11.1	6.7
1750	1932	02.6	17.0	17.45	〃	66510	6705	6685	6492	21.3	19.3	6650	5.5	3.5
1748	1931	03.4	18.8	37.82	〃	66050	6722	6679	6504	21.8	17.5	6662	6.0	1.7
1746	1930	03.1	21.3	18.99	〃	66319	6691	6669	6499	19.2	17.0	6657	3.4	1.2
1744	1929	04.4	23.1	14.41	〃	66797	6724	6708	6518	20.6	19.0	6676	4.8	3.2
1742	1928	06.2	24.2	3.58	〃	66880	6699	6695	6543	15.6	15.2	6701	− 0.2	− 0.6
1740	1927	07.8	25.3	11.07	〃	67209	6755	6743	6565	19.0	17.8	6723	3.2	2.0
1738	1926	09.3	27.8	15.65	〃	67002	6749	6731	6586	16.3	14.5	6744	0.5	− 1.3
1737	1924	09.9	28.3	21.20	〃	66940	6759	6736	6594	16.5	14.2	6752	0.7	− 1.6
1735	1984	09.4	30.3	33.88	VII 22	66571	6762	6724	6587	17.5	13.7	6745	1.7	− 2.1
1733	1985	07.7	31.7	44.35	〃	65921	6729	6679	6564	16.5	11.5	6722	0.7	− 4.3
1731	1986	05.7	32.6	101.96	〃	64637	6778	6664	6536	24.2	12.8	6694	8.4	− 3.0
1730	1987	04.6	33.2	38.45	〃	66048	6724	6681	6520	20.4	16.1	6678	4.6	0.3
1728	1988	03.5	34.8	14.19	〃	66795	6723	6707	6505	21.8	20.2	6663	6.0	4.4
Bôfu W.S.*	1988.1	02.6	32.5	3.03	〃	66798	6689	6686	6492	19.7	19.4	6650	3.9	3.6
1726	1989	02.5	36.6	2.15	〃	67140	6721	6718	6491	23.0	22.7	6649	7.2	6.9
1724	1990	02.7	38.7	3.76	〃	67282	6740	6736	6494	24.6	24.2	6652	8.8	8.4
1722	1991	04.1	40.5	51.41	〃	66424	6801	6744	6513	28.8	23.1	6671	13.0	7.3
1720	1992	04.4	42.5	8.30	〃	67585	6784	6775	6518	26.6	25.7	6676	10.8	9.9
1718	1993	04.2	44.7	4.65	〃	67607	6775	6770	6515	26.0	25.5	6673	10.2	9.7
1716	1994	04.1	47.7	3.41	〃	67117	6722	6718	6513	20.9	20.5	6671	5.1	4.7
1714	1995	02.5	48.8	6.58	〃	66439	6664	6657	6491	17.3	16.6	6649	1.5	0.8
1713	1996	02.1	49.6	5.38	〃	66458	6662	6656	6485	17.7	17.1	6644	1.8	1.2
1711	2025	02.0	52.3	23.63	VII 23	65694	6642	6616	6484	15.8	13.2	6642	0.0	− 2.6
1709	2024	01.6	54.7	40.67	〃	64766	6602	6557	6478	12.4	7.9	6637	− 3.5	− 8.0

* Weather Station, on Concrete Corridor.

Table XVIII. (II) (Continued)

B.M.	No.	φ	λ	H	Date	g	g_0	g_0''	HELMERT Formula of 1901			International Formula		
				(m)	1952	979.	979.	979.	γ_0 979.	Δg_0 (mgal.)	$\Delta g_0''$ (mgal.)	γ_0 979.	Δg_0 (mgal.)	$\Delta g_0''$ (mgal.)
		34° ′	131°′											
1707	2023	02.0	57.0	49.31	VII 23	63984	6551	6495	6484	6.7	1.1	6642	− 9.1	−14.7
1705	2022	03.3	58.9	61.03	〃	63013	6490	6421	6502	− 1.2	− 8.1	6660	−17.0	−23.9
			132°											
1703	2021	04.2	01.1	33.21	〃	63161	6419	6381	6515	− 9.6	−13.4	6673	−25.4	−29.2
1702	2020	05.0	01.6	36.24	〃	63315	6443	6403	6526	− 8.3	−12.3	6684	−24.1	−28.1
1700	2019	05.3	04.2	51.70	〃	62971	6457	6399	6530	− 7.3	−13.1	6688	−23.1	−28.9
1698	2018	06.2	06.4	87.73	〃	62736	6544	6446	6543	0.1	− 9.7	6701	−15.7	−25.5
1691	2017	09.7	11.2	4.55	〃	65016	6516	6511	6592	− 7.6	− 8.1	6749	−23.3	−23.8
1689	2016	10.9	13.9	2.12	〃	65069	6513	6511	6608	− 9.5	− 9.7	6766	−25.3	−25.5
1688	2015	11.8	14.0	2.08	〃	65234	6530	6528	6621	− 9.1	− 9.3	6779	−24.9	−25.1

Synoptic Results for Yamaguchi Prefecture (III).

B.M.	No.	φ	λ	H	Date	g	g_0	g_0''	HELMERT Formula of 1901			International Formula		
				(m)	1952	979.	979.	979.	γ_0 979.	Δg_0 (mgal.)	$\Delta g_0''$ (mgal.)	γ_0 979.	Δg_0 (mgal.)	$\Delta g_0''$ (mgal.)
		34° ′	131°′											
3132	1997	01.0	51.3	1.89	VII 22	66637	6670	6667	6470	20.0	19.7	6628	4.2	3.9
		33°												
3134	1998	59.3	53.0	4.06	〃	65689	6581	6577	6446	13.5	13.1	6605	− 2.4	− 2.8
3136	1999	58.2	55.3	4.41	〃	65670	6581	6576	6431	15.0	14.5	6589	− 0.8	− 1.3
3138	2000	57.3	57.0	4.40	〃	65512	6565	6560	6419	14.6	14.1	6577	− 1.2	− 1.7
3140	2001	55.6	58.4	4.25	〃	64993	6512	6508	6395	11.7	11.3	6553	− 4.1	− 4.5
			132°											
3514	2002	54.3	02.3	8.49	〃	64593	6486	6476	6377	10.9	9.9	6535	− 4.9	− 5.9
3511	2003	56.0	04.5	2.53	〃	64665	6474	6472	6400	7.4	7.2	6559	− 8.5	− 8.7
3509	2004	57.4	06.1	2.84	〃	64422	6451	6448	6420	3.1	2.8	6578	−12.7	−13.0
3507	2005	57.4	07.5	2.81	〃	64170	6426	6423	6420	0.6	0.3	6578	−15.2	−15.5
	2006	57.6	10.7	3.08	〃	64125	6422	6419	6423	− 0.1	− 0.4	6581	−15.9	−16.2

3504	2007	56.7	11.2	4.55	VII 23	63840	6398	6393	6410	− 1.2	− 1.7	6568	−17.0	−17.5
3502	2008	57.0	12.9	2.17	〃	64041	6411	6408	6414	− 0.3	− 0.6	6573	−16.2	−16.5
3499	2009	56.7	15.7	2.15	〃	63751	6382	6379	6410	− 2.8	− 3.1	6568	−18.6	−18.9
3496	2010	55.0	18.2	2.30	〃	62941	6301	6299	6386	− 8.5	− 8.7	6545	−24.4	−24.6
3494	2011	53.9	20.0	1.83	〃	62318	6237	6235	6371	−13.4	−13.6	6529	−29.2	−29.4
3491	2012	54.8	22.6	3.83	〃	62194	6231	6227	6384	−15.3	−15.7	6542	−31.1	−31.5
3487	2013	56.1	26.5	52.20	〃	61046	6266	6208	6402	−13.6	−19.4	6560	−29.4	−35.2

ウオルドン重力計による日本全国の重力測定
第二報　中国地方

坪井忠二・実川　顕・田島広一

これは，四国地方に関する第一報にひきつづき，中国地方における測定結果をまとめたものである．測定と計算との方法は，第一報のそれとほとんど同じであるから，ここにはくりかえさない．

結果は，第VI表～第XIII表(ルート別)，第XIV表～第XVIII表(県別)に示してある．ブーゲー異常の分布は，第6図に示してある．

第6図からわかる主なことがらは，次のとおりである．

1) ブーゲー異常は，北方すなわち日本海の方へむかつて大きくなる．日本海岸に沿つたところでは，等異常線は海岸線と大体平行である．しかし，中国地方の西方においてこの平行性はやぶれ，等異常線は南北に走る．

2) 等異常線と海岸線との平行性は，松江市の近くで乱れている．ここでは海岸線自身も乱れている．

3) 中国地方の中軸帯に沿つては，重力異常は極小である．ここは地質学的には，隆起準平原の中軸帯にあたり，高さは約1000 m であつて，主として花崗岩からできている．

4) 広島市の近くには，いちじるしい負の異常がある．これは四国地方における測定からも推定されたところである．この負地域は逆立卵形をなしていて，およそ2 km 程度の地殻陥没を暗示する．等異常線とほとんど同じ形をした湾があることは面白い．

5) 香川県の北方に見出された著るしい正の異常地域は，中国地方にまでのび，東西方向に長軸をもつた楕円形をなしていることがわかつた．これは，地下に密度の大きいものがあることを示すのであつて，これは恐らく讃岐玄武岩を供給した本源であると思われる．

1946年の南海地震に伴つて生じた地殻変動から，土地の水平変形の主な歪を計算した結果をみると，変形の主な歪は，この正地域内では，いちじるしく小さい．これは，上述の玄武岩体が，かたいことを示していると思われる．

Gravity Survey along the Lines of Precise Levels throughout Japan by Means of a WORDEN Gravimeter.

Part III. Supplement to the Previous Report of the Gravity Survey in Shikoku.

By Chuji TSUBOI,

Earthquake Research Institute.

(Read Feb. 17, 1953.—Received March 10, 1954.)

In the previous report of the gravity measurements in Shikoku (TSUBOI et al. : 1953), the BOUGUER anomalies were calculated on the basis of the HELMERT formula of 1901. In this supplement, the BOUGUER anomalies based on the International Formula

$$\gamma = 978.0490(1 + 0.0052884 \sin^2\varphi - 0.0000059 \sin^2 2\varphi)$$

are given in the accompanying Tables I~IV. The materials concerning latitudes, longitudes, and heights of the gravimetric stations listed in the tables are to be seen in the corresponding Tables XII~XV in Part I. The distribution of the BOUGUER anomalies based on this formula is shown in Fig. 1 which is in the pocket attached to the end of this report.

Of course no sensible differences are seen when compared with the map attached to the previous report.

Reference

TSUBOI, C., JITSUKAWA, A., TAJIMA, H., and OKADA, A.:
1953 "Gravity Survey along the Lines of Precise Levels throughout Japan by Means of a WORDEN Gravimeter. Part I. Shikoku District." Bull. Earthq. Res. Inst., Suppl. Vol. IV, Part 1.

Table I. Gravity Anomalies in Tokushima Prefecture Based on the International Formula.

(I)

B.M.	No.	γ_0 979.	Δg_0 (mgal.)	$\Delta g_0''$ (mgal.)
326	20	6762	29.3	4.9
324	21	6738	18.9	0.0
322	22	6719	16.7	5.0
320	23	6695	10.7	3.9
318	24	6688	11.0	7.4
316	25	6698	10.6	7.1
314	26	6705	2.3	0.3
312	27	6723	2.6	0.0
310	28	6730	0.9	0.2
308	29	6741	3.9	2.9
306	30	6740	0.1	− 0.1
J. 5066	31	6747	2.4	2.2
5068	32	6719	0.7	0.6
5070	33	6688	6.2	5.9
5072	34	6663	14.0	13.8
〃	〃	〃	13.9	13.8
5074	35	6638	17.3	17.2
〃	〃	〃	17.4	17.2
Tokushima W.S.	36	6657	10.3	10.2
5077	37	6606	26.1	25.9
5079	38	6585	17.9	17.6
5081	39	6570	12.1	11.4
5082	40	6557	12.8	12.0
5084	41	6534	9.4	8.8
5086	42	6507	11.4	10.2
5088	43	6488	16.5	12.5
5090	44	6460	17.6	15.6
5092	45	6440	25.5	16.8
5095	46	6421	19.0	18.3
5098	47	6399	22.4	22.1
5100	48	6388	24.5	24.3
5102	49	6379	27.9	24.5
5104	50	6372	35.2	27.1
5106	51	6363	33.9	28.0
5108	52	6345	34.3	33.8
5109	53	6332	38.2	37.1
〃	〃	〃	〃	〃
5110	54	6328	37.9	37.6
5113	55	6303	41.6	41.4
5115	56	6282	41.2	40.8
5116	57	6269	46.0	43.1
5119	58	6251	44.5	44.2

(II)

B.M.	No.	γ_0 979.	Δg_0 (mgal.)	$\Delta g_0''$ (mgal.)
5031	106	6479	19.7	− 2.2
5033	107	6503	16.9	− 3.3
〃	〃	〃	〃	〃
5036	108	6538	11.9	− 6.4
5038	109	6561	14.7	− 1.8
5040	110	6586	16.3	1.9
5042	111	6602	19.5	6.2
5043	112	6614	20.3	7.7
5045	113	6637	23.7	7.7
5047	114	6641	19.2	9.9
5051	115	6664	47.1	− 1.5
5052	116	6671	58.7	− 2.1

(III)

B.M.	No.	γ_0 979.	Δg_0 (mgal.)	$\Delta g_0''$ (mgal.)
No. 8	3665	6807	5.7	3.6
299	3664	6780	5.9	5.5
300	3663	6769	7.7	6.7
302	3658	6759	7.1	6.9
303	3659	6755	6.1	5.9
304	3660	6751	5.0	4.7

Table II. Gravity Anomalies in Kagawa Prefecture Based on the International Formula.

(I)

B.M.	No.	γ_0 979.	Δg_0 (mgal.)	$\Delta g_0''$ (mgal.)
3400	131	6649	0.2	− 0.2
3398	130	6671	0.2	− 0.3
3396	129	6698	5.6	3.9
3394	128	6719	6.9	5.7
3392	127	6741	12.4	9.8
3390	126	6770	15.9	14.9
3388	125	6783	24.6	17.7
3387	124	6797	16.8	14.3
J. 3385	1	6821	19.4	17.4
〃	〃	〃	〃	〃
〃	〃	〃	19.5	17.5
3383	2	6849	22.9	22.4
3381	3	6878	22.0	21.7
J. 354	4	6875	23.5	23.4
353	5	6875	25.2	24.9
351	6	6865	24.2	22.8
349	7	6865	26.1	22.5
347	8	6875	28.2	26.8
345	9	6896	31.9	31.5
343	10	6900	27.9	27.7
Takamatsu W.S.	11	6879	24.1	23.0
341	12	6881	22.6	22.2
339	13	6859	20.2	18.8
337	14	6839	22.7	20.0
335	15	6835	23.5	19.5
333	16	6833	24.8	21.2
〃	〃	〃	〃	〃
331	17	6824	24.0	18.2
〃	〃	〃	24.1	〃
330	18	6810	24.4	13.5
〃	〃	〃	24.5	13.6
327	19	6776	40.3	8.4

(II)

B.M.	No.	γ_0 979.	Δg_0 (mgal.)	$\Delta g_0''$ (mgal.)
5065	123	6810	20.6	17.7
5063	122	6783	20.2	14.2
5061	121	6756	16.5	6.6
5059	120	6727	15.2	1.2
5057	119	6703	11.0	− 3.4
5055	118	6684	28.9	− 5.6
5054	117	6677	40.0	− 5.0

Table III. Gravity Anomalies in Ehime Prefecture Based on the International Formula.

(I)

B.M.	No.	γ_0 979.	Δg_0 (mgal.)	$\Delta g_0''$ (mgal.)
4613	232	5749	31.7	21.2
4610	233	5753	21.8	19.3
4608	234	5753	17.5	17.0
4606	235	5764	16.3	14.7
4603	236	5793	12.4	10.3
4598	237	5852	13.2	10.8
4596	238	5880	7.9	7.6
4595	239	5893	9.0	8.3
4592	240	5922	11.0	5.2
4590	241	5946	3.8	2.5
F. 44	242	5962	3.2	2.1
〃	〃	〃	〃	〃
Uwajima W.S.	243	5970	4.4	− 0.5
〃	244	〃	4.5	− 0.2
4587	245	5981	1.5	0.1
4585	246	6002	3.1	− 3.7
4583	247	6013	− 6.1	− 6.3
4581	248	6039	− 2.3	− 9.7
4580	249	6050	13.6	−13.4
4578	250	6074	20.4	−10.9
4577	251	6082	13.5	−10.3
4575	252	6101	15.9	− 8.6
4572	253	6126	8.4	− 7.6
4570	254	6148	2.1	0.4
J. 4569	255	6161	− 1.6	− 1.9
4567	256	6172	− 3.7	− 7.7
4565	257	6179	14.8	− 5.7
4563	258	6194	− 7.1	− 9.4
4562	259	6202	− 9.2	−10.9
〃	〃	〃	〃	〃
4561	260	6213	−10.6	−11.9
4558	261	6226	− 9.9	−11.7
4557	262	6223	− 1.3	− 5.6
4555	263	6242	− 4.6	−12.6
4552	264	6275	0.8	−11.3
4550	265	6307	3.8	−14.6
4548	266	6316	− 1.2	−20.7
4547	267	6331	9.2	−17.1
4545	268	6352	20.8	−16.1
4543	269	6378	−20.7	−28.1
4541	270	6406	−42.3	−42.6
4539	271	6438	−46.6	−46.8
4538	272	6447	−44.2	−44.7
4536	273	6460	−38.0	−39.7
Matsuyama W.S.	166	6481	−40.9	−44.6

B.M.	No.	γ_0 979.	Δg_0 (mgal.)	$\Delta g_0''$ (mgal.)
3482	164	6493	−31.7	−34.1
〃	〃	〃	−31.5	−34.0
〃	〃	〃	−31.7	−34.1
3480	163	6521	−28.7	−29.4
3478	162	6556	−23.6	−24.1
3476	161	6585	−17.9	−18.2
3474	160	6602	−12.5	−13.0
3472	159	6623	− 6.6	− 6.9
3470	158	6632	− 2.1	− 5.6
3468	157	6650	− 2.5	− 2.7
3466	156	6662	− 1.4	− 1.8
3464	155	6667	− 1.6	− 1.9
3444	154	6713	6.3	5.9
3442	153	6685	3.5	2.7
3440	152	6662	2.3	1.9
3439	151	6652	3.7	3.4
3437	150	6630	4.0	3.7
3435	149	6603	0.0	− 1.7
3434	148	6591	− 0.2	− 5.7
3432	147	6564	−11.9	−13.0
3430	146	6552	−16.4	−16.6
3429	145	6542	−16.2	−16.5
3427	144	6522	−11.8	−14.6
3425	143	6525	− 9.0	− 9.6
3423	142	6542	−12.3	−12.6
3421	141	6546	− 3.4	− 8.7
3419	140	6553	− 4.9	− 9.8
3417	139	6560	− 3.1	−10.0
3415	138	6559	8.8	− 9.1
3413	137	6571	− 4.5	−10.4
3412	136	6577	− 6.9	−10.6
3410	135	6581	− 6.0	− 9.4
3408	134	6584	− 5.2	− 6.2
3405	133	6603	− 1.1	− 2.0
3403	132	6624	− 0.7	− 1.0
〃	〃	〃	− 0.6	− 0.9

Table III. (Continued)

(II)

B.M.	No.	γ_0 979.	Δg_0 (mgal.)	$\Delta g_0''$ (mgal.)
4733	167	6456	−32.8	−35.5
4731	168	6427	−29.7	−34.0
4729	169	6400	− 7.3	−20.9
4728	170	6395	7.8	−18.0
4727	171	6389	22.0	−14.5
4726	172	6381	35.4	−12.7
4724	173	6365	55.2	−12.9
4722	174	6364	65.0	− 7.7
4720	175	6339	51.4	− 6.6
4718	176	6314	44.4	− 8.3
4716	177	6295	38.9	− 8.7
4714	178	6293	33.7	−10.6
〃	〃	〃	〃	〃
4711	179	6273	33.1	− 6.1
4709	180	6251	19.6	−15.9
4707	181	6231	13.7	−15.7
4705	182	6231	15.6	−11.7

(III)

B.M.	No.	γ_0 979.	Δg_0 (mgal.)	$\Delta g_0''$ (mgal.)
3447	2288	6794	2.4	− 0.4
3448	2289	6798	0.2	0.0
3449	2290	6811	− 0.8	− 1.0
3450	2291	6819	− 0.6	− 1.3
3451	2292	6825	9.0	0.4
3453	2293	6850	3.0	2.7
3454	2294	6859	1.9	1.6

Table IV. Gravity Anomalies in Kôchi Prefecture Based on the International Formula.

(I)

B.M.	No.	γ_0 979.	Δg_0 (mgal.)	$\Delta g_0''$ (mgal.)
5121	59	6233	46.4	46.1
5123	60	6215	48.9	48.2
5125	61	6194	53.4	51.4
5128	62	6150	57.9	57.0
5131	63	6112	67.5	66.5
5133	64	6089	66.5	65.7
5135	65	6061	70.6	69.8
5137	66	6034	74.2	73.4
5138	67	6019	78.7	78.0
F. 46	68	5988	84.7	83.7
5142	69	6002	83.7	82.5
Muroto W.S.	70	5991	96.0	76.2
△	71	5990	98.9	78.2
5144	72	6024	81.2	80.5
〃	〃	〃	80.6	79.9
M. 1	73	6024	81.0	79.2
5146	74	6031	77.0	76.2
5148	75	6057	71.2	70.4
5150	76	6076	67.9	66.9
5152	77	6089	62.3	61.4

B.M.	No.	γ_0 979.	Δg_0 (mgal.)	$\Delta g_0''$ (mgal.)
5154	78	6115	55.7	54.9
5156	79	6136	49.9	49.2
5158	80	6144	46.5	45.5
5160	81	6150	45.4	44.5
5162	82	6184	40.7	40.3
5164	83	6197	32.1	31.1
5166	84	6201	34.4	33.5
5168	85	6213	29.9	28.8
5172	86	6220	29.5	26.6
5174	87	6230	23.5	22.7
5176	88	6246	19.6	17.6
5178	89	6256	15.0	13.5
Kôchi W.S.	90	6251	14.1	13.9
5002	91	6244	12.9	12.7
〃	〃	〃	〃	〃
〃	〃	〃	〃	〃
〃	〃	〃	〃	〃
F. 35	194	6242	14.7	13.7
4998	193	6238	15.3	13.7
4995	192	6228	15.0	12.8

Table IV. (Continued)

(I) (Continued)

B.M.	No.	γ_0 979.	Δg_0 (mgal.)	$\Delta g_0''$ (mgal.)
4993	191	6220	14.2	12.1
4991	199	6202	13.3	9.2
J. 4683	200	6195	18.5	9.5
J. 4681	201	6169	21.8	8.9
4677	202	6145	20.9	11.3
4675	203	6126	20.0	19.3
4673	204	6104	23.7	23.1
4670	205	6083	23.9	23.4
4667	206	6060	26.5	26.1
4664	207	6043	37.1	24.4
4661	208	6030	55.6	24.8
4659	209	6006	53.8	26.4
4657	210	5977	54.7	28.1
4654	211	5952	53.2	29.6
〃	〃	〃	〃	〃
4652	212	5925	60.2	31.2
4650	213	5903	40.2	31.9
4648	214	5881	36.3	32.9
4646	215	5866	34.7	33.2
4644	216	5844	36.9	36.3
4642	217	5826	38.8	37.0
4640	218	5808	39.9	38.8
4638	219	5812	36.4	34.9
4636	220	5797	35.3	34.8
4635	221	5787	35.4	34.4
4633	222	5770	36.3	36.0
4631	223	5774	35.4	34.1
4630	224	5766	34.7	34.1
4629	225	5764	33.6	32.9
4627	226	5764	31.6	30.5
4625	227	5753	32.0	31.3
4623	228	5751	31.0	30.0
4621	229	5740	33.8	28.5
4619	230	5731	27.3	27.0
〃	〃	〃	27.4	27.1
4616	231	5734	33.2	24.5

(II)

B.M.	No.	γ_0 979.	Δg_0 (mgal.)	$\Delta g_0''$ (mgal.)
J. 5004	92	6263	14.9	14.8
5006	93	6275	20.9	18.8
5008	94	6282	18.6	16.6
5010	95	6302	29.8	16.3
5012	96	6318	49.3	18.2
5013	97	6327	61.4	18.5
5015	98	6343	54.4	15.7
5017	99	6360	48.9	12.0
5019	100	6388	52.6	16.9
5021	101	6410	45.9	17.7
5023	102	6425	31.5	5.9
5025	103	6432	30.8	5.9
5027	104	6439	32.6	4.7
5029	105	6456	22.6	− 1.4

(III)

B.M.	No.	γ_0 979.	Δg_0 (mgal.)	$\Delta g_0''$ (mgal.)
4684	190	6208	19.2	8.7
4686	189	6223	13.3	6.1
4687	188	6228	12.3	3.9
4689	187	6241	10.5	− 0.4
4694	186	6257	7.4	− 4.5
4697	185	6245	4.8	− 9.8
4700	184	6233	21.0	− 6.9
4703	183	6228	7.2	−14.4

(IV)

B.M.	No.	γ_0 979.	Δg_0 (mgal.)	$\Delta g_0''$ (mgal.)
10882	195	6219	14.4	14.3
10884	196	6194	20.5	20.3
Urato Tide Gauge	197	6194	21.2	20.9
13	198	6195	21.5	21.3

ウオルドン重力計による日本全国の重力測定

第三報　第一報四国地方に対する補遺

坪井忠二

前報告においては，重力異常を算出するのに，標準重力としては，1901年の HELMERT の式を使つた．この補遺においては，国際式 $\gamma=978.0490(1+0.0052884\sin^2\varphi-0.0000059\sin^2 2\varphi)$ を使つて求めた重力異常を表示した．測定点の経緯度，高さ等は，前報告にくわしく書いてある．

第1図は，国際式にもとずく BOUGUER 異常の分布を示したものである．HELMERT の式にもとずく BOUGUER 異常の分布は前報告につけてあるが，それとくらべて大きい差が無いことは当然である．

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(II) 中国地方
(III) 第1報四国地方に対する補遺

昭和29年3月

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PART II

Gravity Survey along the Lines of Precise Levels throughout Japan by Means of a WORDEN Gravimeter

Part II. Chûgoku District

Part III. Supplement to the Previous Report of the Gravity Survey in Shikoku

March, 1954

BOUGUER ANOMALIES IN THE SHIKOKU DISTRICT BASED ON THE INTERNATIONAL FORMULA

[C. Tsuboi, A. Jitsukawa and H. Tajima.]

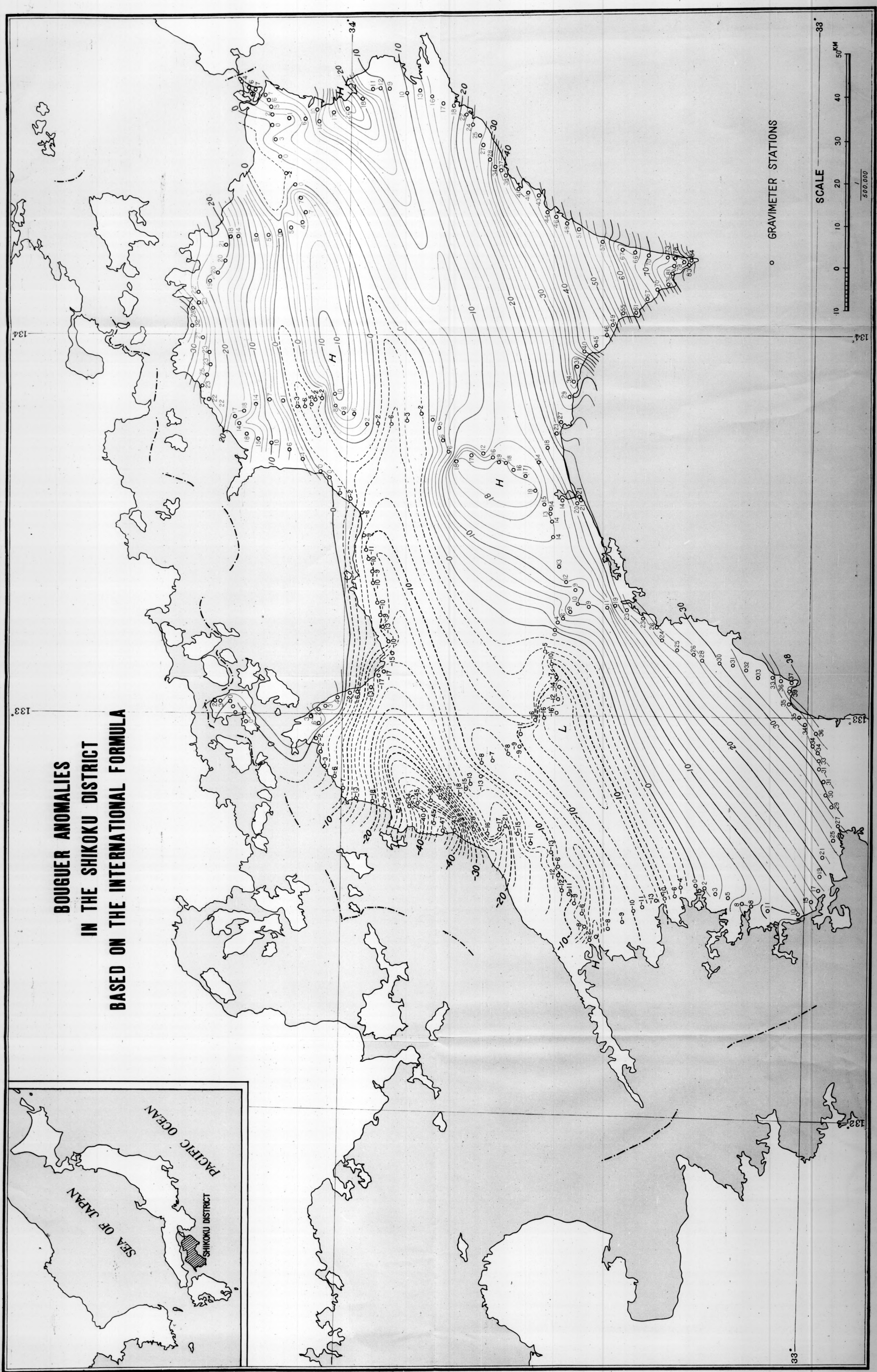

Fig. 1 Bouguer Anomalies in the Shikoku District based on the International Formula. (mgal)

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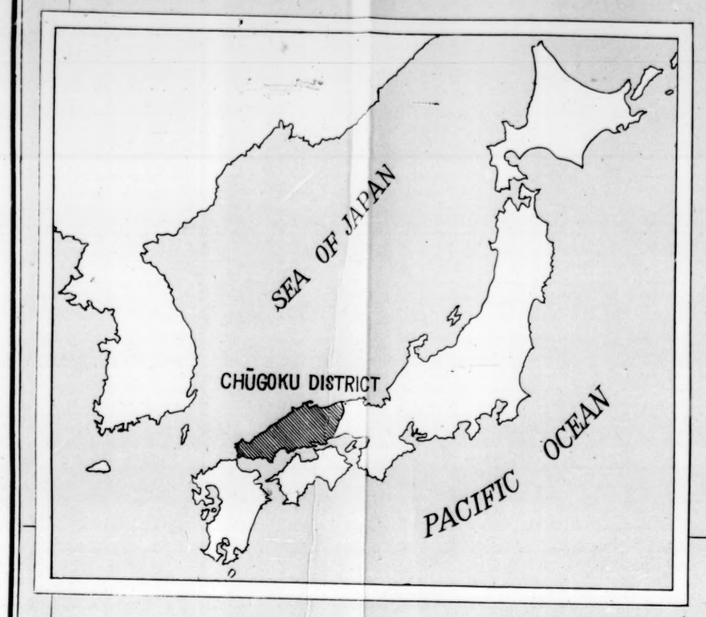
BOUGUER ANOMALIES IN THE CHŪGOKU DISTRICT BASED ON THE INTERNATIONAL FORMULA



131° 132° 133° 134°
35° 34°

GRAVIMETER STATIONS

SCALE
10 0 10 20 30 40 50 KM
1/500.000

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Fig. 12 BOUGUER Anomalies in the Chūgoku District based on the International Formula. (mgal)